

JOHN HANCOCK PREFERRED INCOME FUND II
Form N-CSRS
April 01, 2019
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED

MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21202

John Hancock Preferred Income Fund II
(Exact name of registrant as specified in charter)

200 Berkeley Street, Boston, Massachusetts 02116
(Address of principal executive offices) (Zip code)

Salvatore Schiavone

Treasurer
200 Berkeley Street

Boston, Massachusetts 02116

(Name and address of agent for service)

Registrant's telephone number, including area code: 617-663-4497

Date of fiscal year end: **July 31**

Date of reporting period: January 31, 2019

ITEM 1. REPORTS TO STOCKHOLDERS.

John Hancock

Preferred Income Fund II

Ticker: HPF

Semiannual report 1/31/19

Beginning on January 1, 2021, as permitted by regulations adopted by the Securities and Exchange Commission, paper copies of the fund's shareholder reports such as this one will no longer be sent by mail, unless you specifically request paper copies of the reports from the transfer agent or from your financial intermediary. Instead, the reports will be made available on our website, and you will be notified by mail each time a report is posted and be provided with a website link to access the report.

If you have already elected to receive shareholder reports electronically, you will not be affected by this change and you do not need to take any action. You may elect to receive shareholder reports and other communications electronically by calling the transfer agent, Computershare, at 800-852-0218, by going to "Communication Preferences" at computershare.com/investor, or by contacting your financial intermediary.

You may elect to receive all reports in paper, free of charge, at any time. You can inform the transfer agent or your financial intermediary that you wish to continue receiving paper copies of your shareholder reports by following the instructions listed above. Your election to receive reports in paper will apply to all funds held with John Hancock Investments or your financial intermediary.

A message to shareholders

Dear shareholder,

It's been a challenging time for equity investors as stock markets across many major economies worldwide posted losses for the six months ended January 31, 2019. In the United States, heightened fears of a full-blown trade war with China weighed on investor sentiment despite relatively supportive U.S. economic fundamentals. Global economic growth slowed, and many international markets found themselves confronted by challenging issues that may not abate in the near future.

Concerns about the potential for a more widespread global economic slowdown led to a significant increase in volatility as well as a flight to quality, particularly in the final months of the year. At John Hancock Investments, we believe that we're in the late innings of the bull market, but the economic underpinnings in the United States suggest that there's still room for stocks to run.

Your best resource in unpredictable and volatile markets is your financial advisor, who can help position your portfolio so that it's sufficiently diversified to meet your long-term objectives and to withstand the inevitable turbulence along the way.

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

Sincerely,

Andrew G. Arnott
President and CEO,
John Hancock Investments
Head of Wealth and Asset Management,
United States and Europe

This commentary reflects the CEO's views, which 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
Preferred Income Fund II

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Your fund at a glance

INVESTMENT OBJECTIVE

The fund seeks to provide a high level of current income consistent with preservation of capital. The fund's secondary investment objective is to provide growth of capital to the extent consistent with its primary objective.

AVERAGE ANNUAL TOTAL RETURNS AS OF 1/31/19 (%)

The ICE Bank of America Merrill Lynch Hybrid Preferred Securities Index is a subset of the ICE Bank of America Merrill Lynch Fixed Rate Preferred Securities Index, including all subordinated securities with a payment deferral feature. The ICE Bank of America Merrill Lynch Fixed Rate Preferred Securities Index tracks the performance of fixed-rate U.S. dollar-denominated preferred securities issued in the U.S. domestic market. Qualifying securities must have an investment-grade rating and the country of risk must also have an investment-grade rating.

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 performance data contained within this material represents past performance, which does not guarantee future results.

Investment returns and principal value will fluctuate and a shareholder may sustain losses. Further, the fund's performance at net asset value (NAV) is different from the fund's performance at closing market price because the closing market price is subject to the dynamics of secondary market trading. Market risk may be increased when shares are purchased at a premium to NAV or sold at a discount to NAV. Current month-end performance may be higher or lower than the performance cited. The fund's most recent performance can be found at jhinvestments.com or by calling 800-852-0218.

Portfolio summary

PORTFOLIO COMPOSITION AS OF 1/31/19 (%)

SECTOR COMPOSITION AS OF 1/31/19 (%)

A note about risks

As is the case with all exchange-listed closed-end funds, shares of this fund may trade at a discount or a premium to the fund's net asset value (NAV). An investment in the fund is subject to investment and market risks, including the possible loss of the entire principal invested. There is no guarantee prior distribution levels will be maintained, and distributions may include a substantial tax return of capital. Fixed-income investments are subject to interest-rate risk; their value will normally decline as interest rates rise or if a creditor, grantor, or counterparty is unable or unwilling to make principal, interest, or settlement payments. An issuer of securities held by the fund may default, have its credit rating downgraded, or otherwise perform poorly, which may affect fund performance. Liquidity—the extent to which a security may be sold or a derivative position closed without negatively affecting its market value—may be impaired by reduced trading volume, heightened volatility, rising interest rates, and other market conditions. The fund's use of leverage creates additional risks, including greater volatility of the fund's NAV, market price, and returns. There is no assurance that the fund's leverage strategy will be successful. Focusing on a particular industry or sector may increase the fund's volatility and make it more susceptible to market, economic, and regulatory risks as well as other factors affecting those industries or sectors.

The fund normally will invest at least 25% of its total assets in the industries composing the utilities sector, which includes telecommunications companies, measured at the time of purchase. When the fund's investments focus on one or more sectors of the economy, they are far less diversified than the broad securities markets. This means that the fund may be more volatile than other funds, and the values of its investments may go up and down more rapidly. Because utility companies are capital intensive, they can be hurt by higher interest rates, which would increase the companies' interest burden. They can also be affected by costs in connection with capital construction programs, costs associated with environmental and other regulations, and the effects of economic declines, surplus capacity, and increased competition. In addition, the fund may invest in financial services companies, which can be hurt by economic declines, changes in interest rates, and regulatory and market impacts. The fund's investments in securities of foreign issuers involve special risks, such as political, economic, and currency risks and differences in accounting standards and financial reporting. Cybersecurity incidents may allow an unauthorized party to gain access to fund assets, customer data, or proprietary information, or cause a fund or its service providers to suffer data corruption or lose operational functionality. Similar incidents affecting issuers of a fund's securities may negatively affect performance.

TOP 10 ISSUERS AS OF 1/31/19 (%)

Dominion Energy, Inc.	5.3
JPMorgan Chase & Co.	4.0
DTE Energy Company	3.7
PPL Capital Funding, Inc.	3.3
Morgan Stanley	3.2
Crown Castle International Corp.	3.2
United States Cellular Corp.	3.0
W.R. Berkley Corp.	3.0
BB&T Corp.	3.0
Duke Energy Corp.	2.7
TOTAL	34.4

As a percentage of total investments.

Cash and cash equivalents are not included.

QUALITY COMPOSITION AS OF 1/31/19 (%)

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Fund's investments

AS OF 1-31-19 (unaudited)

	Shares	Value
Preferred securities (A) 124.6% (80.7% of Total investments) (Cost \$534,435,561)		\$534,131,996
Communication services 11.1%		47,717,591
Diversified telecommunication services 3.2%		
Qwest Corp., 6.125%	30,000	647,700
Qwest Corp., 6.500%	110,790	2,333,237
Qwest Corp., 6.750%	220,000	4,815,800
Qwest Corp., 6.875%	98,796	2,336,525
Verizon Communications, Inc., 5.900% (B)	135,000	3,516,750
Wireless telecommunication services 7.9%		
Telephone & Data Systems, Inc., 6.625% (B)	168,297	4,256,231
Telephone & Data Systems, Inc., 6.875% (B)	115,519	2,795,560
Telephone & Data Systems, Inc., 7.000% (B)	283,000	7,021,230
United States Cellular Corp., 6.950% (B)(C)	673,600	16,725,488
United States Cellular Corp., 7.250%	129,725	3,269,070
Consumer staples 3.2%		13,840,000
Food and staples retailing 3.2%		
Ocean Spray Cranberries, Inc., 6.250% (B)(D)	160,000	13,840,000
Energy 1.2%		5,292,000
Oil, gas and consumable fuels 1.2%		
Enbridge, Inc., Series B (6.375% to 4-15-23, then 3 month LIBOR + 3.593%) (B)	210,000	5,292,000
Financials 47.5%		203,369,971
Banks 24.8%		
Bank of America Corp., 6.500% (B)	180,000	4,667,400
Bank of America Corp., 6.625%	31,922	823,907
BB&T Corp. (Callable 3-5-19), 5.200% (B)	326,250	7,856,100
BB&T Corp., 5.625% (B)	474,675	11,866,875
Citigroup Capital XIII (3 month LIBOR + 6.370%), 9.121% (B)(E)	50,000	1,297,000
Citigroup, Inc., 6.875%	60,000	1,500,000
Citigroup, Inc. (7.125% to 9-30-23, then 3 month LIBOR + 4.040%) (B)	300,564	7,964,946
JPMorgan Chase & Co., 5.450% (B)	60,000	1,503,000
JPMorgan Chase & Co., 6.000%	169,000	4,328,090
JPMorgan Chase & Co., 6.100% (B)	276,500	7,147,525
JPMorgan Chase & Co., 6.125% (B)	501,419	12,951,653
JPMorgan Chase & Co., 6.300% (B)	30,000	771,000
MB Financial, Inc., 6.000%	150,000	3,775,500
Synovus Financial Corp. (6.300% to 6-21-23, then 3 month LIBOR + 3.352%)	164,500	4,125,660
The PNC Financial Services Group, Inc., 5.375% (B)	70,000	1,743,000
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	Shares	Value
Financials (continued)		
Banks (continued)		
The PNC Financial Services Group, Inc. (6.125% to 5-1-22, then 3 month LIBOR + 4.067%) (B)	145,000	\$3,820,750
U.S. Bancorp (6.500% to 1-15-22, then 3 month LIBOR + 4.468%) (B)	570,000	15,492,600
Wells Fargo & Company, 6.000% (B)	250,000	6,452,500
Wells Fargo & Company (6.625% to 3-15-24, then 3 month LIBOR + 3.690%) (B)(C)	269,225	7,481,763
Western Alliance Bancorp, 6.250%	20,000	518,800
Capital markets 8.0%		
Ares Management Corp., 7.000%	2,525	67,695
Deutsche Bank Contingent Capital Trust II, 6.550%	5,500	137,940
Morgan Stanley, 6.625% (B)	175,000	4,455,500
Morgan Stanley (6.375% to 10-15-24, then 3 month LIBOR + 3.708%)	125,000	3,285,000
Morgan Stanley (6.875% to 1-15-24, then 3 month LIBOR + 3.940%)	86,000	2,322,000
Morgan Stanley (7.125% to 10-15-23, then 3 month LIBOR + 4.320%) (B)	405,472	11,272,122
State Street Corp., 5.250% (B)	45,000	1,098,000
State Street Corp., 6.000% (B)(C)	445,000	11,538,850
Consumer finance 2.7%		
Capital One Financial Corp., 6.200% (B)	195,395	5,062,684
Capital One Financial Corp., 6.700%	52,925	1,365,465
Navient Corp., 6.000% (B)	244,271	5,056,410
Insurance 11.9%		
Aegon NV, 6.375% (B)(C)	392,498	10,020,474
Aegon NV, 6.500% (B)	220,000	5,647,400
Assurant, Inc., 6.500%	15,000	1,564,050
Prudential Financial, Inc., 5.750% (B)	120,000	3,048,000
Prudential PLC, 6.500% (B)(C)	103,000	2,737,739
The Hartford Financial Services Group, Inc. (7.875% to 4-15-22, then 3 month LIBOR + 5.596%) (B)	46,750	1,335,648
The Phoenix Companies, Inc., 7.450% (B)	216,500	3,474,825
Unum Group, 6.250%	127,500	3,233,400
W.R. Berkley Corp., 5.625% (B)	740,000	19,891,200
Thriffs and mortgage finance 0.1%		
Federal National Mortgage Association, Series S (F)	75,000	667,500
Industrials 2.3%		9,803,367
Machinery 2.3%		
Stanley Black & Decker, Inc., 5.750% (B)(C)	385,504	9,803,367
Real estate 14.2%		61,000,557
Equity real estate investment trusts 14.2%		
American Homes 4 Rent, Series D, 6.500%	71,825	1,721,645
American Homes 4 Rent, Series E, 6.350%	35,000	803,950

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	Shares	Value
Real estate (continued)		
Equity real estate investment trusts (continued)		
American Homes 4 Rent, Series F, 5.875%	146,511	\$3,341,916
American Homes 4 Rent, Series G, 5.875%	117,500	2,574,425
Crown Castle International Corp., 6.875% (B)	19,200	21,012,695
Digital Realty Trust, Inc., 6.350%	922	24,073
Digital Realty Trust, Inc., 6.625%	10,925	282,958
Digital Realty Trust, Inc., 7.375%	29,592	744,535
Federal Realty Investment Trust, Series C, 5.000% (B)	80,000	1,814,400
Kimco Realty Corp., 6.000% (B)(C)	315,396	7,701,970
Public Storage, 5.200% (B)	255,000	5,997,600
Public Storage, 5.375%	21,275	507,196
Senior Housing Properties Trust, 5.625% (B)	683,020	14,473,194
Utilities 45.1%		193,108,510
Electric utilities 19.9%		
Alabama Power Company, 5.000% (B)	97,929	2,442,349
Duke Energy Corp., 5.125% (B)(C)	731,624	18,129,643
Entergy Louisiana LLC, 5.250% (B)	220,000	5,737,600
HECO Capital Trust III, 6.500%	187,750	4,896,520
Interstate Power & Light Company, 5.100% (B)	158,837	4,055,109
NextEra Energy Capital Holdings, Inc., 5.125% (B)	80,000	1,949,600
NextEra Energy, Inc., 6.123% (B)(C)	183,000	10,853,730
NSTAR Electric Company, 4.780%	15,143	1,484,014
PPL Capital Funding, Inc., 5.900% (B)	855,000	21,528,900
SCE Trust II, 5.100% (B)(C)	507,795	9,709,040
SCE Trust III (5.750% to 3-15-24, then 3 month LIBOR + 2.990%) (B)	20,000	414,800
The Southern Company, 6.250% (B)	155,000	4,059,450
Gas utilities 2.5%		
South Jersey Industries, Inc., 7.250%	213,600	10,492,032
Multi-utilities 22.7%		
Algonquin Power & Utilities Corp. (6.875% to 10-17-23, then 3 month LIBOR + 3.677%) (B)(C)	314,400	8,407,056
CenterPoint Energy, Inc., 7.000%	158,000	8,524,100
CMS Energy Corp., 5.625% (B)	190,000	4,877,300
Dominion Energy, Inc., 6.750% (B)	609,667	29,294,499
DTE Energy Company, 5.250% (B)	424,477	10,633,149
DTE Energy Company, 5.250% (B)	160,000	3,953,600
DTE Energy Company, 6.000% (B)	76,475	2,093,121
DTE Energy Company, 6.500% (B)	149,200	8,126,924
Integrus Holding, Inc. (6.000% to 8-1-23, then 3 month LIBOR + 3.220%) (B)	237,872	5,994,374
NiSource, Inc. (6.500% to 3-15-24, then 5 Year CMT + 3.632%)	288,000	7,885,440
Sempra Energy, 6.000%	31,200	3,130,296
Sempra Energy, 6.750%	43,600	4,435,864
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	Shares	Value
Common stocks 8.6% (5.5% of Total investments) (Cost \$36,104,028)		\$36,666,959
Communication services 0.6%	2,298,000	
Diversified telecommunication services 0.6%		
CenturyLink, Inc. (B)	150,000	2,298,000
Energy 8.0%		34,368,959
Oil, gas and consumable fuels 8.0%		
BP PLC, ADR (B)(C)	226,000	9,293,120
Equitrans Midstream Corp. (F)	140,000	2,914,800
Kinder Morgan, Inc.	441,452	7,990,281
ONEOK, Inc. (B)	167,500	10,755,175
Royal Dutch Shell PLC, ADR, Class A (B)	55,331	3,415,583

	Rate (%)	Maturity date	Par value	Value
Corporate bonds 19.8% (12.8% of Total investments) (Cost \$88,271,191)				\$85,040,788
Consumer discretionary 2.0%				8,619,015
Automobiles 2.0%				
General Motors Financial Company, Inc. (6.500% to 9-30-28, then 3 month LIBOR + 3.436%) (B)(C)(G)	6.500	09-30-28	9,739,000	8,619,015
Energy 1.5%				6,440,000
Oil, gas and consumable fuels 1.5%				
Energy Transfer Operating LP (3 month LIBOR + 3.018%) (B)(E)	5.559	11-01-66	8,050,000	6,440,000
Financials 12.7%				54,451,778
Banks 9.1%				
Bank of America Corp. (5.875% to 3-15-28, then 3 month LIBOR + 2.931%) (G)	5.875	03-15-28	1,000,000	977,050
Barclays PLC (7.750% to 9-15-23, then 5 Year U.S. Swap Rate + 4.842%) (G)	7.750	09-15-23	3,000,000	2,991,240
BNP Paribas SA (7.375% to 8-19-25, then 5 Year U.S. Swap Rate + 5.150%) (B)(G)	7.375	08-19-25	6,800,000	7,063,500
Citizens Financial Group, Inc. (6.000% to 7-6-23, then 3 month LIBOR + 3.003%) (G)	6.000	07-06-23	2,750,000	2,615,938
Citizens Financial Group, Inc. (6.375% to 4-6-24, then 3 month LIBOR + 3.157%) (G)	6.375	04-06-24	6,000,000	5,898,000
HSBC Holdings PLC (6.500% to 3-23-28, then 5 Year U.S. ISDAFIX + 3.606%) (B)(G)	6.500	03-23-28	6,500,000	6,337,500
Huntington Bancshares, Inc. (5.700% to 4-15-23, then 3 month LIBOR + 2.880%) (G)	5.700	04-15-23	2,000,000	1,885,000
Lloyds Banking Group PLC (7.500% to 6-27-24, then 5 Year U.S. Swap Rate + 4.760%) (G)	7.500	06-27-24	6,000,000	6,105,000
The Royal Bank of Scotland Group PLC (8.000% to 8-10-25, then 5 Year U.S. Swap Rate + 5.720%) (G)	8.000	08-10-25	3,175,000	3,321,050

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	Rate (%)	Maturity date	Par value	Value
Financials (continued)				
Banks (continued)				
Wells Fargo & Company (5.900% to 6-15-24, then 3 month LIBOR + 3.110%) (B)(G)	5.900	06-15-24	2,000,000	\$2,020,000
Capital markets 1.3%				
Credit Suisse Group AG (7.250% to 9-12-25, then 5 Year U.S. Swap Rate + 4.332%) (D)(G)	7.250	09-12-25	2,400,000	2,376,000
Credit Suisse Group AG (7.500% to 7-17-23, then 5 Year U.S. Swap Rate + 4.600%) (D)(G)	7.500	07-17-23	3,290,000	3,355,800
Consumer finance 1.1%				
Discover Financial Services (5.500% to 10-30-27, then 3 month LIBOR + 3.076%) (B)(G)	5.500	10-30-27	5,000,000	4,556,250
Insurance 1.2%				
MetLife, Inc. (5.875% to 3-15-28, then 3 month LIBOR + 2.959%) (B)(G)	5.875	03-15-28	4,000,000	3,988,200
Prudential Financial, Inc. (5.700% to 9-15-28, then 3 month LIBOR + 2.665%)	5.700	09-15-48	1,000,000	961,250
Utilities 3.6%				
				15,529,995
Electric utilities 1.8%				
Emera, Inc. (6.750% to 6-15-26, then 3 month LIBOR + 5.440%)	6.750	06-15-76	3,750,000	3,825,000
Southern California Edison Company (6.250% to 2-1-22, then 3 month LIBOR + 4.199%) (B)(G)	6.250	02-01-22	4,000,000	3,760,000
Multi-utilities 1.8%				
CenterPoint Energy, Inc. (6.125% to 9-1-23, then 3 month LIBOR + 3.270%) (B)(C)(G)	6.125	09-01-23	6,500,000	6,500,000
NiSource, Inc. (5.650% to 6-15-23, then 5 Year CMT + 2.843%) (B)(D)(G)	5.650	06-15-23	1,500,000	1,444,995
Capital preferred securities (H) 1.4% (0.9% of Total investments) (Cost \$5,574,000)				\$5,790,182
Utilities 1.4%				
				5,790,182
Multi-utilities 1.4%				
Dominion Resources Capital Trust III (B)	8.400	01-15-31	5,000,000	5,790,182

	Yield* (%)	Maturity date	Par value	Value
Short-term investments 0.2% (0.1% of Total investments) (Cost \$685,000)				\$685,000
U.S. Government Agency 0.2%				685,000
Federal Home Loan Bank Discount Note 2.259	2.259	02-01-19	685,000	685,000
Total investments (Cost \$665,069,780)	154.6%			\$662,314,925
Other assets and liabilities, net (54.6%)				(233,816,735)
Total net assets 100.0%				\$428,498,190

The percentage shown for each investment category is

the total
value of the
category as a
percentage of
the net assets
of the fund
unless
otherwise
indicated.

^All par
values are
denominated
in U.S.
dollars unless
otherwise
indicated.

SEE NOTES TO FINANCIAL
STATEMENTS

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FUND II

Security Abbreviations and Legend

ADR American Depositary Receipt

CMT Constant Maturity Treasury

ISDAFIX International Swaps and Derivatives Association Fixed Interest Rate Swap Rate

LIBOR London Interbank Offered Rate

- (A) Includes preferred stocks and hybrid securities with characteristics of both equity and debt that pay dividends on a periodic basis.
All of a portion of this security is pledged as collateral pursuant to the Credit Facility Agreement. Total collateral value at 1-31-19 was \$496,164,537. A portion of the securities pledged as collateral were loaned pursuant to the Credit Facility Agreement. The value of securities on loan amounted to \$132,236,683.
- (B) All or a portion of this security is on loan as of 1-31-19, and is a component of the fund's leverage under the Credit Facility Agreement.
- (C) These securities are exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be resold, normally to qualified institutional buyers, in transactions exempt from registration.
- (D) Variable rate obligation. The coupon rate shown represents the rate at period end.
- (E) Non-income producing security.
- (F) Perpetual bonds have no stated maturity date. Date shown as maturity date is next call date.
- (G) Includes hybrid securities with characteristics of both equity and debt that trade with, and pay, interest income.
- (H) Yield represents either the annualized yield at the date of purchase, the stated coupon rate or, for floating rate securities, the rate at period end.
- *

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DERIVATIVES
FUTURES

Open contracts	Number of contracts	Position	Expiration date	Notional basis*	Notional value*	Unrealized appreciation (depreciation)
10-Year U.S. Treasury Note Futures	520	Short	Mar 2019	\$(61,874,842)	\$(63,683,750)	\$(1,808,908)
						\$(1,808,908)

* Notional basis refers to the contractual amount agreed upon at inception of open contracts; notional value represents the current value of the open contract.

SWAPS

Interest rate swaps

Counterparty (OTC)/ Centrally cleared	Notional amount	Currency	Payments made	Payments received	Fixed payment frequency	Floating payment frequency	Maturity date	Unamortized upfront payment paid (received)	Unrealized appreciation (depreciation)	Value
Centrally cleared	60,000,000	USD	Fixed 2.136%	USD 3 Month LIBOR BBA ^(a)	Semi-Annual	Quarterly	Oct 2022	—	\$916,712	\$916,712
								—	\$916,712	\$916,712

(a) At 1-31-19, the 3 month LIBOR was 2.738%

Derivatives

Currency

Abbreviations

USD U.S. Dollar

Derivatives Abbreviations

BBA The British Banker's Association

LIBOR London Interbank Offered Rate

At 1-31-19, the aggregate cost of investments for federal income tax purposes was \$665,356,855. Net unrealized depreciation aggregated to \$3,934,126, of which \$19,212,848 related to gross unrealized appreciation and \$23,146,974 related to gross unrealized depreciation.

OTC is an abbreviation for over-the-counter. See Notes to financial statements regarding investment transactions and other derivatives information.

SEE NOTES TO FINANCIAL STATEMENTS

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Financial statements

STATEMENT OF ASSETS AND LIABILITIES 1-31-19 (unaudited)

Assets	
Unaffiliated investments, at value (Cost \$665,069,780)	\$662,314,925
Receivable for centrally cleared swaps	358,731
Cash	101,758
Collateral held at broker for futures contracts	621,000
Dividends and interest receivable	2,821,814
Receivable for investments sold	2,203,861
Other assets	53,323
Total assets	668,475,412
Liabilities	
Payable for futures variation margin	243,750
Credit facility agreement	238,000,000
Payable for investments purchased	1,525,937
Interest payable	42,463
Payable to affiliates	
Accounting and legal services fees	27,057
Trustees' fees	1,733
Other liabilities and accrued expenses	136,282
Total liabilities	239,977,222
Net assets	\$428,498,190
Net assets consist of	
Paid-in capital	\$450,651,093
Total distributable earnings (loss)	(22,152,903)
Net assets	\$428,498,190
Net asset value per share	
Based on 21,299,980 shares of beneficial interest outstanding - unlimited number of shares authorized with no par value	\$ 20.12
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STATEMENT OF OPERATIONS For the six months ended 1-31-19 (unaudited)

Investment income	
Dividends	\$18,957,552
Interest	2,841,643
Less foreign taxes withheld	(40,979)
Total investment income	21,758,216
Expenses	
Investment management fees	2,508,399
Interest expense	3,653,326
Accounting and legal services fees	44,007
Transfer agent fees	16,153
Trustees' fees	22,854
Custodian fees	28,769
Printing and postage	74,917
Professional fees	28,341
Stock exchange listing fees	12,009
Other	8,329
Total expenses	6,397,104
Less expense reductions	(26,075)
Net expenses	6,371,029
Net investment income	15,387,187
Realized and unrealized gain (loss)	
Net realized gain (loss) on	
Unaffiliated investments and foreign currency transactions	(15,862,020)
Futures contracts	(44,057)
Swap contracts	(283,441)
	(16,189,518)
Change in net unrealized appreciation (depreciation) of	
Unaffiliated investments	(300,676)
Futures contracts	(1,682,840)
Swap contracts	(780,751)
	(2,764,267)
Net realized and unrealized loss	(18,953,785)
Decrease in net assets from operations	\$(3,566,598)

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STATEMENTS OF CHANGES IN NET ASSETS

	Six months ended 1-31-19 (unaudited)	Year ended 7-31-18
Increase (decrease) in net assets		
From operations		
Net investment income	\$15,387,187	\$31,823,772
Net realized gain (loss)	(16,189,518)	9,472,097
Change in net unrealized appreciation (depreciation)	(2,764,267)	(21,892,123)
Increase (decrease) in net assets resulting from operations	(3,566,598)	19,403,746
Distributions to shareholders		
From net investment income and net realized gain	(17,884,067) ¹	—
From net investment income	—	(35,744,533)
Total distributions	(17,884,067)	(35,744,533)
Fund share transactions		
Issued pursuant to Dividend Reinvestment Plan	317,560	349,573
Total decrease	(21,133,105)	(15,991,214)
Net assets		
Beginning of period	449,631,295	465,622,509
End of period ²	\$428,498,190	\$449,631,295
Share activity		
Shares outstanding		
Beginning of period	21,284,064	21,267,596
Issued pursuant to Dividend Reinvestment Plan	15,916	16,468
End of period	21,299,980	21,284,064

¹ A portion of the distributions may be deemed a tax return of capital at year-end.

² Net assets - End of year includes undistributed net investment income of \$(89,681) at July 31, 2018. The SEC eliminated the requirement to disclose undistributed net investment income in the current reporting period.

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STATEMENT OF CASH FLOWS For the six months ended 1-31-19 (unaudited)

Cash flows from operating activities	
Net decrease in net assets from operations	\$(3,566,598)
Adjustments to reconcile net decrease in net assets from operations to net cash provided by operating activities:	
Long-term investments purchased	(89,717,295)
Long-term investments sold	92,203,172
Net purchases and sales in short-term investments	2,888,000
Net amortization of premium (discount)	(314,236)
(Increase) Decrease in assets:	
Receivable for centrally cleared swaps	316,175
Collateral held at broker for futures contracts	(74,987)
Dividends and interest receivable	(1,163,794)
Receivable for investments sold	1,466,206
Other assets	(6,647)
Increase (Decrease) in liabilities:	
Payable for futures variation margin	219,372
Payable for investments purchased	(766,320)
Interest payable	5,686
Payable to affiliates	(6,035)
Other liabilities and accrued expenses	(28,894)
Net change in unrealized (appreciation) depreciation on:	
Investments	300,676
Net realized (gain) loss on:	
Investments	15,861,832
Net cash provided by operating activities	\$17,616,313
Cash flows provided by (used in) financing activities	
Distributions to shareholders	\$(17,566,507)
Net cash used in financing activities	\$(17,566,507)
Net increase in cash	\$49,806
Cash at beginning of period	\$51,952
Cash at end of period	\$101,758
Supplemental disclosure of cash flow information:	
Cash paid for interest	\$3,647,640
Noncash financing activities not included herein consists of reinvestment distributions:	\$317,560
SEE NOTES TO FINANCIAL STATEMENTS	SEMIANNUAL REPORT JOHN HANCOCK PREFERRED INCOME FUND II

Financial highlights

Period ended	1-31-19 ¹	7-31-18	7-31-17	7-31-16	7-31-15	7-31-14
Per share operating performance						
Net asset value, beginning of period	\$21.13	\$21.89	\$22.58	\$21.59	\$21.28	\$20.43
Net investment income ²	0.72	1.50	1.60	1.59	1.64	1.64
Net realized and unrealized gain (loss) on investments	(0.89)	(0.58)	(0.61)	1.08	0.35	0.89
Total from investment operations	(0.17)	0.92	0.99	2.67	1.99	2.53
Less distributions						
From net investment income	(0.84) ³	(1.68)	(1.68)	(1.53)	(1.62)	(1.68)
From tax return of capital	—	—	—	(0.15)	(0.06)	—
Total distributions	(0.84)	(1.68)	(1.68)	(1.68)	(1.68)	(1.68)
Net asset value, end of period	\$20.12	\$21.13	\$21.89	\$22.58	\$21.59	\$21.28
Per share market value, end of period	\$21.16	\$21.27	\$22.39	\$22.68	\$19.51	\$20.15
Total return at net asset value (%) ^{4,5}	(0.70) ⁶	4.63	4.87	13.47	10.08	13.52
Total return at market value (%) ⁴	3.75 ⁶	2.97	6.79	26.12	5.06	9.53
Ratios and supplemental data						
Net assets, end of period (in millions)	\$428	\$450	\$466	\$480	\$459	\$452
Ratios (as a percentage of average net assets):						
Expenses before reductions	2.98 ⁷	2.52	2.06	1.81	1.70	1.77
Expenses including reductions ⁸	2.97 ⁷	2.50	2.05	1.80	1.69	1.77
Net investment income	7.17 ⁷	7.13	7.42	7.37	7.56	8.16
Portfolio turnover (%)	14	24	21	14	13	8
Senior securities						
Total debt outstanding end of period (in millions)	\$238	\$238	\$238	\$238	\$238	\$238
Asset coverage per \$1,000 of debt ⁹	\$2,800	\$2,889	\$2,956	\$3,016	\$2,927	\$2,900

¹ Six months ended 1-31-19. Unaudited.

² Based on average daily shares outstanding.

³ A portion of the distributions may be deemed a tax return of capital at year-end.

Total return based on net asset value reflects changes in the fund's net asset value during each period. Total return

⁴ based on market value reflects changes in market value. Each figure assumes that distributions from income, capital gains and tax return of capital, if any, were reinvested.

⁵ Total returns would have been lower had certain expenses not been reduced during the applicable periods.

⁶ Not annualized.

⁷ Annualized.

⁸ Expenses including reductions excluding interest expense were 1.27% (annualized), 1.25%, 1.25%, 1.24%, 1.23% and 1.28% for the periods ended 1-31-19, 7-31-18, 7-31-17, 7-31-16, 7-31-15 and 7-31-14, respectively.

⁹ Asset coverage equals the total net assets plus borrowings divided by the borrowings of the fund outstanding at period end (Note 7). As debt outstanding changes, the level of invested assets may change accordingly. Asset coverage ratio provides a measure of leverage.

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Notes to financial statements (unaudited)

Note 1 Organization

John Hancock Preferred Income Fund II (the fund) is a closed-end management investment company organized as a Massachusetts business trust and registered under the Investment Company Act of 1940, as amended (the 1940 Act).

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 fund's Valuation Policies and Procedures.

In order to value the securities, the fund uses the following valuation techniques: Equity securities held by the fund 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. Debt obligations are typically valued based on the evaluated prices provided by an independent pricing vendor. Independent pricing vendors utilize matrix pricing which takes into account factors such as institutional-size trading in similar groups of securities, yield, quality, coupon rate, maturity, type of issue, trading characteristics and other market data, as well as broker supplied prices. Swaps are generally valued using evaluated prices obtained from an independent pricing vendor. Futures contracts are typically valued at the last traded price on the exchange on which they trade.

In certain instances, the Pricing Committee 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 fund's Pricing Committee following procedures established 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.

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. 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 fund's own 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.

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The following is a summary of the values by input classification of the fund's investments as of January 31, 2019, by major security category or type:

	Total value at 1-31-19	Level 1 quoted price	Level 2 significant observable inputs	Level 3 significant unobservable inputs
Investments in securities:				
Assets				
Preferred securities				
Communication services	\$47,717,591	\$47,717,591		
Consumer staples	13,840,000		\$13,840,000	
Energy	5,292,000	5,292,000		
Financials	203,369,971	199,895,146	3,474,825	
Industrials	9,803,367	9,803,367		
Real estate	61,000,557	39,987,862	21,012,695	
Utilities	193,108,510	180,733,602	12,374,908	
Common stocks	36,666,959	36,666,959		
Corporate bonds	85,040,788		85,040,788	
Capital preferred securities	5,790,182		5,790,182	
Short-term investments	685,000		685,000	
Total investments in securities	\$662,314,925	\$520,096,527	\$142,218,398	
Derivatives:				
Assets				
Swap contracts	\$916,712		\$916,712	
Liabilities				
Futures	(1,808,908)	\$(1,808,908)		

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. Interest income includes coupon interest and amortization/accretion of premiums/discounts on debt securities. Debt obligations may be placed in a non-accrual status and related interest income may be reduced by stopping current accruals and writing off interest receivable when the collection of all or a portion of interest has become doubtful. Dividend income is recorded on the ex-date, except for dividends of 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.

Real estate investment trusts. The fund may invest in real estate investment trusts (REITs). Distributions from REITs may be recorded as income and subsequently characterized by the REIT at the end of the fiscal year as a reduction of cost of investments and/or as a realized gain. As a result, the fund will estimate the components of distributions from these securities. Such estimates are revised when the actual components of the distributions are known.

Foreign taxes. The fund may be subject to withholding tax on income, capital gains or repatriation taxes 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.

Overdrafts. Pursuant to the custodian agreement, the fund's custodian may, in its discretion, advance funds to the fund to make properly authorized payments. When such payments result in an overdraft, the fund is obligated to repay the custodian for any overdraft, including any costs or expenses associated with the overdraft. The custodian may have a lien, security interest or security

entitlement in any fund property that is not otherwise segregated or pledged, to the maximum extent permitted by law, to the extent of any overdraft.

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.

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.

As of July 31, 2018, 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 monthly and capital gain distributions, if any, annually.

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 fund's 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 characterization of distributions.

Statement of cash flows. A Statement of cash flows is presented when a fund has a significant amount of borrowing during the period, based on the average total borrowing in relation to total assets, or when a certain percentage of the fund's investments is classified as Level 3 in the fair value hierarchy. Information on financial transactions that have been settled through the receipt and disbursement of cash is presented in the Statement of cash flows. The cash amount shown in the Statement of cash flows is the amount included in the fund's Statement of assets and liabilities and represents the cash on hand at the fund's custodian and does not include any short-term investments or collateral held at broker for futures contracts.

Note 3 Derivative Instruments

The fund may invest in derivatives in order to meet its investment objective. Derivatives include a variety of different instruments that may be traded in the over-the-counter (OTC) market, on a regulated exchange or through a clearing facility. The risks in using derivatives vary depending upon the structure of the instruments, including the use of leverage, optionality, the liquidity or lack of liquidity of the contract, the creditworthiness of the counterparty or clearing organization and the volatility of the position. Some derivatives involve risks that are potentially greater than the risks associated with investing directly in the referenced securities or other referenced underlying instrument. Specifically, the fund is exposed to the risk that the counterparty to an OTC derivatives contract will be unable or unwilling to make timely settlement payments or otherwise honor its obligations. OTC derivatives transactions typically can only be closed out with the other party to the transaction.

Certain swaps are typically traded through the OTC market. Certain swaps are regulated by the Commodity Futures Trading Commission. Derivative counterparty risk is managed through an ongoing evaluation of the creditworthiness of all potential counterparties and, if applicable, designated clearing organizations. The fund attempts to reduce its exposure to counterparty risk for derivatives traded in the OTC market, whenever possible, by entering into an International Swaps and Derivatives Association (ISDA) Master Agreement with each of its OTC counterparties. The ISDA gives each party to the agreement the right to terminate all transactions traded under the agreement if there is certain deterioration in the credit quality or contractual default of the other party, as defined in the ISDA. Upon an event of default or a termination of the ISDA, the non-defaulting party has the right to close out all transactions and to net amounts owed.

As defined by the ISDA, the fund may have collateral agreements with certain counterparties to mitigate counterparty risk on OTC derivatives. Subject to established minimum levels, collateral for OTC transactions is generally determined based on the net aggregate unrealized gain or loss on contracts with a particular counterparty. Collateral pledged to the fund is held in a segregated account by a third-party agent or held by the custodian bank for the benefit of the fund and can be in the form of cash or debt

securities issued by the U.S. government or related agencies; collateral posted by the fund for OTC transactions is held in a segregated account at the fund's custodian and is noted in the accompanying fund's investments, or if cash is posted, on the Statement of assets and liabilities. The fund's risk of loss due to counterparty risk is equal to the asset value of outstanding contracts offset by collateral received.

Futures and centrally-cleared swaps are traded or cleared on an exchange or central clearinghouse. Exchange-traded or centrally-cleared transactions generally present less counterparty risk to a fund than OTC transactions. The exchange or clearinghouse stands between the fund and the broker to the contract and therefore, credit risk is generally limited to the failure of the exchange or clearinghouse and the clearing member.

Centrally-cleared swap contracts are subject to clearinghouse rules, including initial and variation margin requirements, daily settlement of obligations and the clearinghouse guarantee of payments to the broker. There is, however, still counterparty risk due to the potential insolvency of the broker with respect to any margin held in the brokers' customer accounts. While clearing members are required to segregate customer assets from their own assets, in the event of insolvency, there may be a shortfall in the amount of margin held by the broker for its clients. Collateral or margin requirements for exchange-traded or centrally-cleared derivatives are set by the broker or applicable clearinghouse. Margin for exchange-traded and centrally-cleared transactions is detailed in the Statement of assets and liabilities as Collateral held at broker for futures contracts and receivable for centrally-cleared swaps, respectively. Securities pledged by the fund for exchange-traded and centrally-cleared transactions, if any, are identified in the Fund's investments.

Futures. A futures contract is a contractual agreement to buy or sell a particular currency or financial instrument at a pre-determined price in the future. Risks related to the use of futures contracts include possible illiquidity of the futures markets, contract prices that can be highly volatile and imperfectly correlated to movements in the underlying financial instrument and potential losses in excess of the amounts recognized on the Statement of assets and liabilities. Use of long futures contracts subjects the fund to the risk of loss up to the notional value of the futures contracts. Use of short futures contracts subjects the fund to unlimited risk of loss.

Upon entering into a futures contract, the fund is required to deposit initial margin with the broker in the form of cash or securities. The amount of required margin is generally based on a percentage of the contract value; this amount is the initial margin for the trade. The margin deposit must then be maintained at the established level over the life of the contract. Futures margin receivable / payable is included on the Statement of assets and liabilities. Futures contracts are marked-to-market daily and an appropriate payable or receivable for the change in value (variation margin) and unrealized gain or loss is recorded by the fund. When the contract is closed, the fund records a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed.

During the six months ended January 31, 2019, the fund used futures contracts to manage against anticipated interest rate changes. The fund held futures contracts with notional values ranging from \$61.6 million to \$63.7 million, as measured at each quarter end.

Interest rate swaps. Interest rate swaps represent an agreement between the fund and a counterparty to exchange cash flows based on the difference between two interest rates applied to a notional amount. The payment flows are usually netted against each other, with the difference being paid by one party to the other. The fund settles accrued net interest receivable or payable under the swap contracts at specified, future intervals. Swap agreements are privately negotiated in the OTC market or may be executed on a registered commodities exchange (centrally cleared swaps). Swaps are marked-to-market daily and the change in value is recorded as unrealized appreciation/depreciation of swap contracts. A termination payment by the counterparty or the fund is recorded as realized gain or loss, as well as the net periodic payments received or paid by the fund. The value of the swap will typically impose collateral posting obligations on the party that is considered out-of-the-money on the swap.

Entering into swap agreements involves, to varying degrees, elements of credit, market and documentation risk that may provide outcomes that are in excess of the amounts recognized on the Statement of assets and liabilities. Such risks involve the possibility that there will be no liquid market for the swap, or that a counterparty may default on its obligation or delay payment under the swap terms. The counterparty may disagree or contest the terms of the swap. In addition to interest rate risk, market risks may also impact the swap. The fund may also suffer losses if it is unable to terminate or assign outstanding swaps or reduce its exposure through offsetting transactions.

During the six months ended January 31, 2019, the fund used interest rate swaps to manage against anticipated interest rate changes. No new interest rate swap positions were entered into or closed during the six months ended January 31, 2019.

Fair value of derivative instruments by risk category

The table below summarizes the fair value of derivatives held by the fund at January 31, 2019 by risk category:

Risk	Statement of assets and liabilities location	Financial instruments location	Assets derivatives fair value	Liabilities derivative fair value
Interest rate	Receivable/payable for futures variation margin	Futures		(\$1,808,908)
Interest rate	Swap contracts, at value	Interest rate swaps [^]	\$916,712	
Total			\$916,712	(\$1,808,908)

Reflects cumulative appreciation/depreciation on futures as disclosed in Fund's investments. Only the period end variation margin is separately disclosed on the Statement of assets and liabilities.

[^] Reflects cumulative value of swap contracts. Receivable for centrally cleared swaps, which includes value and margin, and swap contracts at value, which represents OTC swaps, are shown separately on the Statement of assets and liabilities.

Effect of derivative instruments on the Statement of operations

The table below summarizes the net realized gain (loss) included in the net increase (decrease) in net assets from operations, classified by derivative instrument and risk category, for the six months ended January 31, 2019:

Statement of operations location - net realized gain (loss)

on:

Risk	Futures contracts	Swap contracts	Total
Interest rate	(\$44,057)	(\$283,441)	(\$327,498)

The table below summarizes the net change in unrealized appreciation (depreciation) included in the net increase (decrease) in net assets from operations, classified by derivative instrument and risk category, for the six months ended January 31, 2019:

Statement of operations location - change in net unrealized appreciation (depreciation) of:

Risk	Futures contracts	Swap contracts	Total
Interest rate	(\$1,682,840)	(\$780,751)	(\$2,463,591)

Note 4 Guarantees and indemnifications

Under the Trust's fund's organizational documents, its Officers and Trustees are indemnified against certain liabilities arising out of the performance of their duties to 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 5 Fees and transactions with affiliates

John Hancock Advisers, LLC (the Advisor) serves as investment advisor for the fund. The Advisor is an indirect, wholly owned subsidiary of Manulife Financial Corporation (MFC).

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 0.75% of the fund's average daily managed assets including any assets attributable to the Credit Facility Agreement (see Note 7) (collectively, managed assets). The Advisor has a subadvisory agreement with John Hancock Asset Management a division of Manulife Asset Management (US) LLC, an indirectly owned subsidiary of MFC and an affiliate of the Advisor. 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 January 31, 2019, this waiver amounted to 0.01% of the fund's average daily managed assets (on an annualized basis). This agreement expires on June 30,

2020, 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 expense reductions described above amounted to \$26,075 for the six months ended January 31, 2019.

The investment management fees, including the impact of the waivers and reimbursements as described above, incurred for the six months ended January 31, 2019 were equivalent to a net annual effective rate of 0.74% of the fund's average daily managed 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, 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 accounting and legal services fees incurred for the six months ended January 31, 2019 amounted to an annual rate of 0.01% of the fund's average daily managed assets.

Trustee expenses. The fund compensates each Trustee who is not an employee of the Advisor or its affiliates. These Trustees receive from the fund and the other John Hancock closed-end funds an annual retainer. In addition, Trustee compensation and expenses are allocated to each fund based on its net assets relative to other funds within the John Hancock group of funds complex.

Note 6 Leverage risk

The fund utilizes a Credit Facility Agreement (CFA) to increase its assets available for investment. When the fund leverages its assets, common shareholders bear the fees associated with the CFA and have potential to benefit or be disadvantaged from the use of leverage. The Advisor's fee is also increased in dollar terms from the use of leverage. Consequently, the fund and the Advisor may have differing interests in determining whether to leverage the fund's assets. Leverage creates risks that may adversely affect the return for the holders of shares, including:

- the likelihood of greater volatility of NAV and market price of shares;
- fluctuations in the interest rate paid for the use of the credit facility;
- increased operating costs, which may reduce the fund's total return;
- the potential for a decline in the value of an investment acquired through leverage, while the fund's obligations under such leverage remains fixed; and
- the fund is more likely to have to sell securities in a volatile market in order to meet asset coverage or other debt compliance requirements.

To the extent the income or capital appreciation derived from securities purchased with funds received from leverage exceeds the cost of leverage, the fund's return will be greater than if leverage had not been used; conversely, returns would be lower if the cost of the leverage exceeds the income or capital appreciation derived.

In addition to the risks created by the fund's use of leverage, the fund is subject to the risk that it would be unable to timely, or at all, obtain replacement financing if the CFA is terminated. Were this to happen, the fund would be required to de-leverage, selling securities at a potentially inopportune time and incurring tax consequences. Further, the fund's ability to generate income from the use of leverage would be adversely affected.

Note 7 Credit facility agreement

The fund has entered into a CFA with a subsidiary of BNP Paribas (BNP) that allows it to borrow up to \$238,000,000 (maximum facility amount) and to invest the borrowings in accordance with its investment practices.

The fund pledges a portion of its assets as collateral to secure borrowings under the CFA. Such pledged assets are held in a special custody account with the fund's custodian. The amount of assets required to be pledged by the fund is determined in accordance with the CFA. The fund retains the benefits of ownership of assets pledged to secure borrowings under the CFA. Interest charged is at the rate of one month LIBOR (London Interbank Offered Rate) plus 0.70% and is payable monthly. As of January 31, 2019, the fund had borrowings of \$238,000,000 at an interest rate of 3.21%, which are reflected in the CFA payable on the Statement of assets and liabilities. During the six months ended January 31, 2019, the average borrowings under the CFA and the effective average interest rate were \$238,000,000 and 3.04%, respectively.

The fund is required to pay a commitment fee equal to 0.60% on any unused portion of the maximum facility amount, only for days on which the aggregate outstanding amount of the loans under the CFA is less than 80% of the maximum facility amount. For the six months ended January 31, 2019, there were no commitment fees incurred by the fund.

The fund may terminate the CFA with 30 days' notice. If certain asset coverage and collateral requirements, minimum net assets or other covenants are not met, the CFA could be deemed in default and result in termination. Absent a default or facility termination event, BNP generally is required to provide the fund with 360 days' notice prior to terminating or amending the CFA.

The fund has an agreement with BNP that allows BNP to borrow a portion of the pledged collateral (Lent Securities) in an amount not to exceed the lesser of: (i) outstanding borrowings owed by the fund to BNP or (ii) 33 1/3% of the fund's total assets. The fund can designate any security within the pledged collateral as ineligible to be a Lent Security and can recall any of the Lent Securities. The fund also has the right to apply and set-off an amount equal to 100% of the then-current fair market value of such Lent Securities against the current borrowings under the CFA in the event that BNP fails to timely return the Lent Securities and in certain other circumstances. In such circumstances, however, the fund may not be able to obtain replacement financing required to purchase replacement securities and, consequently, the fund's income generating potential may decrease. Even if the fund is able to obtain replacement financing, it might not be able to purchase replacement securities at favorable prices. Income earned from Lent Securities of \$66,927 for the six months ended January 31, 2019 is recorded as a component of interest income on the Statement of operations.

Note 8 Purchase and sale of securities

Purchases and sales of securities, other than short-term investments, amounted to \$89,717,295 and \$ 92,203,172, respectively, for the six months ended January 31, 2019.

Note 9 Industry or sector risk

The fund may invest a large percentage of its assets in one or more particular industries or sectors of the economy. If a large percentage of the fund's assets are economically tied to a single or small number of industries or sectors of the economy, the fund will be less diversified than a more broadly diversified fund, and it may cause the fund to underperform if that industry or sector underperforms. In addition, focusing on a particular industry or sector may make the fund's NAV more volatile. Further, a fund that invests in particular industries or sectors is particularly susceptible to the impact of market, economic, regulatory and other factors affecting those industries or sectors.

Note 10 New accounting pronouncement

In March 2017, the Financial Accounting Standards Board issued Accounting Standards Update (ASU) 2017-08, Premium Amortization on Purchased Callable Debt Securities, which shortens the premium amortization period for purchased non-contingently callable debt securities. The standard is effective for annual periods beginning after December 15, 2018 and interim periods within those fiscal years. Management does not expect the ASU to have an impact on the fund's net assets or total return. Depending upon holdings of the fund, the shortening of the premium amortization period could decrease interest income with a corresponding offset to unrealized gain (loss).

ADDITIONAL INFORMATION

Unaudited

Investment objective and principal investment strategies

The fund is a closed-end, diversified management investment company, common shares of which were initially offered to the public on November 29, 2002 and are publicly traded on the New York Stock Exchange (the NYSE). The fund's primary investment objective is to provide a high level of current income consistent with preservation of capital. The fund's secondary investment objective is to provide growth of capital to the extent consistent with its primary investment objective. The fund seeks to achieve its investment objectives by investing in securities that, in the opinion of the Advisor, may be undervalued relative to similar securities in the marketplace. The fund's principal investment strategies include, but are not limited to, the following: Under normal market conditions, the fund invests at least 80% of its assets (net assets plus borrowings for investment purposes) in preferred stocks and other preferred securities, including convertible preferred securities. In addition, the fund normally invests 25% or more of its total assets in the industries composing the utilities sector.

Dividends and distributions

During the six months ended January 31, 2019, distributions from net investment income totaling \$0.8400 per share were paid to shareholders. The dates of payments and the amounts per share were as follows:

Payment Date	Distributions¹
August 31, 2018	\$0.1400
September 28, 2018	0.1400
October 31, 2018	0.1400
November 30, 2018	0.1400
December 31, 2018	0.1400
January 31, 2019	0.1400
Total	\$0.8400

¹ A portion of the distributions may be deemed a tax return of capital at year-end.

More information

Trustees

Hassell H. McClellan, *Chairperson*

Steven R. Pruchansky, *Vice*

Chairperson

Andrew G. Arnott

Charles L. Bardelis*

James R. Boyle

Peter S. Burgess*

William H. Cunningham

Grace K. Fey

Marianne Harrison #

Theron S. Hoffman*

Deborah C. Jackson

James M. Oates

Gregory A. Russo

Investment advisor

John Hancock Advisers, LLC

Subadvisor

John Hancock Asset Management a division of Manulife Asset Management (US) LLC

Portfolio Managers

Joseph H. Bozoyan, CFA

Brad Lutz, CFA

Custodian

State Street Bank and Trust Company

Officers

Andrew G. Arnott

President

Francis V. Knox, Jr.

Chief Compliance Officer

Charles A. Rizzo

Chief Financial Officer

Salvatore Schiavone

Treasurer

Christopher (Kit) Sechler**

Secretary and Chief Legal Officer

* Member of the Audit Committee

Non-Independent Trustee

#Effective 6-19-18

**Effective 9-13-18

Transfer agent

Computershare Shareowner Services, LLC

Legal counsel

K&L Gates LLP

Stock symbol

Listed New York Stock Exchange: HPF

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 or on our website.

The fund's complete list of portfolio holdings, for the first and third fiscal quarters, is filed with the SEC on Form N-Q. Effective April 30, 2019, all of the fund's holdings as of the end of the third month of every fiscal quarter will be filed with the SEC on Form N-PORT within 60 days of the end of the fiscal quarter. The fund's Form N-Q is available on our website and the SEC's website, 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 800-852-0218.

You can also contact us:

Regular mail:

Express mail:

800-852-0218

jhinvestments.com

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462 South 4th Street, Suite 1600

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SEMIANNUAL REPORT | JOHN HANCOCK PREFERRED INCOME FUND II 25

John Hancock family of funds

DOMESTIC EQUITY FUNDS

INCOME FUNDS

Blue Chip Growth

Bond

Classic Value

California Tax-Free Income

Disciplined Value

Emerging Markets Debt

Disciplined Value Mid Cap

Floating Rate Income

Equity Income

Government Income

Financial Industries

High Yield

Fundamental All Cap Core

High Yield Municipal Bond

Fundamental Large Cap Core

Income

Fundamental Large Cap Value

Investment Grade Bond

New Opportunities

Money Market

Regional Bank

Short Duration Credit Opportunities

Small Cap Core

Spectrum Income

Small Cap Growth

Strategic Income Opportunities

Small Cap Value

Tax-Free Bond

U.S. Global Leaders Growth

ALTERNATIVE AND SPECIALTY FUNDS

U.S. Growth

U.S. Quality Growth

Absolute Return Currency

Value Equity

Alternative Asset Allocation

GLOBAL AND INTERNATIONAL EQUITY FUNDS

Disciplined Alternative Yield

Disciplined Value International

Global Absolute Return Strategies

Global Conservative Absolute Return

Emerging Markets

Global Focused Strategies

Emerging Markets Equity

Infrastructure

Fundamental Global Franchise

Seaport Long/Short

Global Equity

Technical Opportunities

Global Shareholder Yield

Global Thematic Opportunities

Greater China Opportunities

International Growth

International Small Company

The fund's investment objectives, risks, charges, and expenses are included in the prospectus and should be considered carefully before investing. For a prospectus, contact your financial professional, call John Hancock Investments at 800-852-0218, or visit the fund's website at jhinvestments.com. Please read the prospectus carefully before investing or sending money.

ASSET ALLOCATION

Balanced

Income Allocation

Multi-Index Lifetime Portfolios

Multi-Index Preservation Portfolios

Multimanager Lifestyle Portfolios

Multimanager Lifetime Portfolios

Retirement Income 2040

EXCHANGE-TRADED FUNDS

John Hancock Multifactor Consumer Discretionary ETF

John Hancock Multifactor Consumer Staples ETF

John Hancock Multifactor Developed International ETF

John Hancock Multifactor Emerging Markets ETF

John Hancock Multifactor Energy ETF

John Hancock Multifactor Financials ETF

John Hancock Multifactor Healthcare ETF

John Hancock Multifactor Industrials ETF

John Hancock Multifactor Large Cap ETF

John Hancock Multifactor Materials ETF

John Hancock Multifactor Media and
Communications ETF

John Hancock Multifactor Mid Cap ETF

John Hancock Multifactor Small Cap ETF

**ENVIRONMENTAL, SOCIAL, AND
GOVERNANCE FUNDS**

ESG All Cap Core

ESG Core Bond

ESG International Equity

ESG Large Cap Core

CLOSED-END FUNDS

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 Multifactor Technology ETF

John Hancock Multifactor Utilities ETF

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

John Hancock ETFs are distributed by Foreside Fund Services, LLC, and are subadvised by Dimensional Fund Advisors LP.

Foreside is not affiliated with John Hancock Funds, LLC or Dimensional Fund Advisors LP.

Dimensional Fund Advisors LP receives compensation from John Hancock in connection with licensing rights to the John Hancock Dimensional indexes. Dimensional Fund Advisors LP does not sponsor, endorse, or sell, and makes no representation as to the advisability of investing in, John Hancock Multifactor ETFs.

John Hancock Investments

A trusted brand

John Hancock Investments is a premier asset manager representing one of America's most trusted brands, with a heritage of financial stewardship dating back to 1862. Helping our shareholders pursue their financial goals is at the core of everything we do. It's why we support the role of professional financial advice and operate with the highest standards of conduct and integrity.

A better way to invest

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

Our unique approach to asset management enables us to provide a diverse set of investments backed by some of the world's best managers, along with strong risk-adjusted returns across asset classes.

John Hancock
Advisers, LLC
200 Berkeley Street n
Boston, MA
02116-5010
800-852-0218 n
jhinvestments.com
MF733323 P11SA 1/19
3/19

ITEM 2. CODE OF ETHICS.

Not applicable at this time.

ITEM 3. AUDIT COMMITTEE FINANCIAL EXPERT.

Not applicable at this time.

ITEM 4. PRINCIPAL ACCOUNTANT FEES AND SERVICES.

Not applicable at this time.

ITEM 5. AUDIT COMMITTEE OF LISTED REGISTRANTS.

Not applicable at this time.

ITEM 6. SCHEDULE OF INVESTMENTS.

(a) Not applicable.

(b) Not applicable.

ITEM 7. DISCLOSURE OF PROXY VOTING POLICIES AND PROCEDURES FOR CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

Not applicable at this time.

ITEM 8. PORTFOLIO MANAGERS OF CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

Not applicable at this time.

ITEM 9. PURCHASES OF EQUITY SECURITIES BY CLOSED-END MANAGEMENT INVESTMENT COMPANY AND AFFILIATED PURCHASERS.

Not applicable at this time.

ITEM 10. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS.

Not applicable at this time.

ITEM 11. CONTROLS AND PROCEDURES.

(a) Based upon their evaluation of the registrant's disclosure controls and procedures as conducted within 90 days of the filing date of this Form N-CSR, the registrant's principal executive officer and principal financial officer have concluded that those disclosure controls and procedures provide reasonable assurance that the material information required to be disclosed by the registrant on this report is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.

(b) There were no changes in the registrant's internal control over financial reporting that occurred during the second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

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ITEM 12. DISCLOSURE OF SECURITIES LENDING ACTIVITIES FOR CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

The Fund did not participate directly in securities lending activities. See Note 7 to financial statements in Item 1.

ITEM 13. EXHIBITS.

(a) Separate certifications for the registrant's principal executive officer and principal financial officer, as required by Section 302 of the Sarbanes-Oxley Act of 2002 and Rule 30a-2(a) under the Investment Company Act of 1940, are attached.

(b)(1) Separate certifications for the registrant's principal executive officer and principal financial officer, as required by 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, and Rule 30a-2(b) under the Investment Company Act of 1940, are attached. The certifications furnished pursuant to this paragraph are not deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that section. Such certifications are not deemed to be incorporated by reference into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934, except to the extent that the Registrant specifically incorporates them by reference.

(c)(1) Registrant's notice to shareholders pursuant to Registrant's exemptive order granting an exemption from Section 19(b) of the Investment Company Act of 1940, as amended and Rule 19b-1 thereunder regarding distributions made pursuant to the Registrant's Managed Distribution Plan.

(c)(2) Submission of Matters to a Vote of Security Holders is attached. See attached "John Hancock Funds – Nominating and Governance Committee Charter".

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

John Hancock Preferred Income Fund II

By: /s/ Andrew G. Arnott
Andrew G. Arnott
President

Date: March 28, 2019

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ Andrew G. Arnott
Andrew G. Arnott
President

Date: March 28, 2019

By: /s/ Charles A. Rizzo
Charles A. Rizzo
Chief Financial Officer

Date: March 28, 2019
