

# **The Platinum 401k Retirement Savings Plan**

***fbo***

**MRI Software, LLC**

## **Participant Enrollment Guide and Related Documents**

- **Pages 2-35 - 401k Plan Enrollment Guide**
- **Pages 36-97 - Investment Fund Guide**
- **Pages 98-116 - 404a-5 Plan and Investment  
Notice**

***Prepared September 2015***

# Welcome from John Hancock

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If you're like most people, you're hoping for a financially secure retirement. Achieving your retirement dreams requires more than just hope, it requires a plan.

This PDF is one key to that plan. It can help get you on the path toward a financially secure retirement. It will also walk you step-by-step through how to enroll.

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## How to use this PDF:

- We highly recommend that you don't print this entire PDF. Instead use it as an electronic resource
  - A chapter menu exists on the left hand side of the file so you can easily navigate to each section.
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## It's as easy as 1,2,3 Go!

Your retirement plan is a powerful savings tool that your employer is making available to you as a value-added benefit. Seize this opportunity to quickly and easily lay the foundation for your financial future.

**John Hancock – *helping you enjoy getting there***





RETIREMENT PLAN  
SERVICES

# Enjoy Getting There



Plan for retirement. It's as easy as 1, 2, 3 Go!

**Enrollment Guide**



# Your **financial future** – it's in your hands

## Welcome to John Hancock.

By opening this book and taking some time to make a few choices, together we can help you get started on the road to retirement. Joining your company's retirement savings plan offers a convenient way to save for retirement. It is a benefit that your employer is making available to you. Seize this opportunity to quickly and easily lay the foundation for your financial future.

## What to expect

The following pages will walk you through our simple 1, 2, 3 Go! steps to help you enroll in your qualified retirement plan and customize it to your needs.

**Step 1** : How much do I need in retirement?

**Step 2** : How much do I need to contribute today?

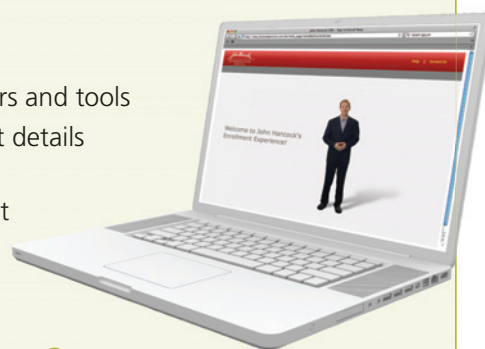
**Step 3** : How should I invest my retirement savings?

You can track your answers on the back page.

### Enroll in minutes online. Quickly and easily:

- walk through the basics of investing
- use real-time calculators and tools
- get details specific to your plan
- fill out your enrollment details

Go to **[www.jhgoenroll.com](http://www.jhgoenroll.com)** and use your contract number and enrollment access number on the next page to get started today.



### Need Help? Want to enroll on the phone?

Call us at **1-855-JHENROLL (1-855-543-6765)**

Talk to one of our enrollment representatives after reviewing the information in this book and the Investment Comparative Chart. They can also answer questions you may have around the process of joining your company's plan, moving your other retirement accounts into your new plan and much more. We are available from 9 A.M. to 6 P.M. (EST), Monday to Friday.



# About your plan

COMPANY NAME **MRI SOFTWARE, LLC**

CONTRACT NUMBER **120448**

ENROLLMENT ACCESS NUMBER **496370**

## About John Hancock

With more than 150 years of leadership and experience helping millions of Americans prepare for their financial futures, John Hancock can help you reach your retirement goals. As you travel down the road to retirement, John Hancock will be with you every step of the way with tips, tools, information and insights to help you stay the course.

**Follow our easy steps and you're on your way to building a retirement plan. Let's begin...**



# A plan for **retirement**

## What is a qualified retirement plan?

A qualified retirement plan is a popular savings tool that millions of Americans use to help prepare for retirement.

An example of this is a 401(k) plan. Employees in this type of plan make pre-tax contributions to their retirement plan accounts through automatic deductions from their paychecks. Over time, savings may grow, helping you prepare for retirement. Your qualified retirement plan can provide you with a number of savings advantages, such as the potential for reduced taxes, the ability to take advantage of compound earnings and more.



## And why is it important?

This plan has been set up by your employer.

By participating in your company's retirement plan, you'll be able to take greater control of your financial future. You'll also be able to take advantage of some attractive benefits the plan offers, including:

### The potential to pay less in taxes

The more you contribute to your plan\*, the larger your retirement savings (and tax savings) may be.

- Each 401(k) dollar you contribute to your retirement plan is taken from your paycheck before taxes are applied. This may lower your taxable income. It might even put you in a lower tax bracket.
- The earnings on contributions to your plan grow tax-deferred until withdrawn. And since you may be in a lower tax bracket in retirement, you might pay less tax when the money is withdrawn~ than if you were taxed today.

\*Tax limits and plan limits apply.

~Withdrawals of taxable amounts will be subject to ordinary income tax (state and local taxes may apply) and, if taken prior to age 59½, a 10% IRS tax penalty may apply.







# Step 1

## How much do I need in retirement?

Everyone hopes for a happy retirement, free from worries about money. But a financially secure future doesn't just happen by itself. A successful retirement requires a bit of foresight and some planning. The good news is that there are some things you can do right now to help put you on the path toward your retirement dreams.

The first step in our 1, 2, 3 Go process is to help you figure out how much income you'll need once you retire.

The six retirement profiles on the following pages can help you get an idea of the level of income you might need in your retirement. Each profile shows a different retirement lifestyle, along with the estimated retirement income you might need to pay for that lifestyle each year in retirement. It is like creating a yearly budget for what your life will look like in retirement and the amount for each profile is the annual salary that you are paying yourself. Think about the fixed expenses you might have, like rent, car payments, phone bills etc and the other expenses like dinners out, vacations and new clothes.

You can use these profiles to help you get an idea of what you would like your life to be like in retirement.

\* While retirement profiles are helpful in planning the necessary contributions for retirement savings, there is no guarantee that any investment strategy will be successful in achieving investment objectives. These MapInfo profiles are for illustrative purposes only, are not intended as financial or investment advice, and are not intended to represent the past or future performance of any investment option. Social Security is a projection based on 2015 Social Security Benefits estimates as per the Quick Calculator at [www.socialsecurity.gov/OACT/quickcalc](http://www.socialsecurity.gov/OACT/quickcalc) and may not be sustainable. They assume a planned retirement age of 67, a life expectancy of 84 and investing with a balanced strategy. It also considers married individuals starting at age 49 with an average rate of return of 4.3% and single individuals starting at age 30 with an average rate of return of 4.8%. The rate of return has been adjusted for an inflation rate of 2.3% and also considers the number of years to retirement. Talk to your financial representative about how this situation may relate to your own.



# Retirement profiles

## Profile \$17,500\* – Debbie & Mike Wright

- The Wrights have lived and worked in the same small community for years. They don't plan on moving when they retire.
- They enjoy a modest, yet comfortable, lifestyle. They're involved in the community and are careful shoppers.
- In retirement, Debbie and Mike look forward to socializing, going to movies, reading and spending time with family and friends. They may continue to work to keep busy and supplement their retirement income.

Income from retirement savings<sup>§</sup> **\$3,000**

Income from Social Security benefits **\$14,500**

**Total annual household income in retirement \$17,500**



### Is this you?

- Do you enjoy being involved in the community, vacationing close to home and spending time with family?
- Do you keep a car as long as you can to save on car payments?
- Do you consider yourself a value shopper?

## Profile \$32,000\* – Maria & Tony Sanchez

- Maria and Tony are active people who love spending time with family and participating in events for the organizations they belong to.
- They attend church and share a desire to give back to the community.
- In retirement, Maria and Tony look forward to traveling occasionally, enjoying their hobbies, visiting with family and possibly working part-time.

Income from retirement savings<sup>∞</sup> **\$11,000**

Income from Social Security benefits **\$21,000**

**Total annual household income in retirement \$32,000**



### Is this you?

- Do you like to take occasional trips to relax or spend time with family?
- Would you like to devote more time to your favorite organization once you retire?
- Are you looking at retirement as an opportunity to turn a hobby into a part-time business?

## Profile \$45,000\* – Sherry & Nigel Palmer

- The Palmers dream of moving to a retirement community in Florida once they retire.
- They're disciplined savers and smart shoppers. They're hoping their good habits will help them live a simple, yet comfortable, life once they retire.
- In retirement, Sherry and Nigel look forward to visiting their kids. They plan on financing their visits by flying during the off-season and making their car last.

Income from retirement savings<sup>†</sup> **\$20,500**

Income from Social Security benefits **\$24,500**

**Total annual household income in retirement \$45,000**



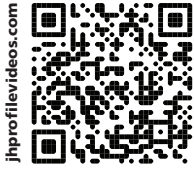
### Is this you?

- Do you take advantage of coupons to help cut your grocery bills?
- Do you opt for previously-owned cars rather than buying new?
- Are you a disciplined saver?

<sup>§</sup> Assumes a current combined annual income of \$17,500, existing tax-deferred savings of \$10,000 and making a combined monthly contribution of \$70.

<sup>∞</sup> Assumes a current combined annual income of \$32,000, existing taxable savings of \$21,000 and tax-deferred savings of \$15,000, and making a combined monthly contribution of \$263.

<sup>†</sup> Assumes a current combined annual income of \$45,000, existing taxable savings of \$30,000 and tax-deferred savings of \$21,000, and making a combined monthly contribution of \$559.



## Profile \$62,000\* – Alan Browne

- In retirement, Alan plans to pursue interests he doesn't have time for today, like attending sporting events, dinners out and visiting with friends.
- Alan is a conservative spender and plans to continue to live moderately once he retires.
- In retirement, Alan is looking forward to spending time with friends and completing some home improvement projects.

Income from retirement savings<sup>α</sup> **\$33,000**

Income from Social Security benefits **\$29,000**

**Total annual household income in retirement \$62,000**



### Is this you?

- Do you occasionally dine out?
- Do you enjoy leisure activities close to home?
- Do you enjoy attending sporting events?

## Profile \$90,000\* – Grace & Peter Wong

- Grace and Peter are busy with their careers and are about to move into their dream home, where they will continue to live once they retire.
- They want to stay active by working out and playing golf.
- In retirement, they are looking forward to spending more time with family and taking yearly vacations.

Income from retirement savings<sup>α</sup> **\$52,500**

Income from Social Security benefits **\$37,500**

**Total annual household income in retirement \$90,000**



### Is this you?

- Do you belong to a gym?
- Do you buy a new car every few years?
- Do you occasionally travel?

## Profile \$120,000\* – Helen & David Burrows

- Helen and David enjoy city life – museums, restaurants and theatre. They plan to live in the city when they retire so they can continue to enjoy these pastimes.
- They have done well financially and enjoy luxuries such as new cars and exotic vacations.
- They are disciplined investors who have a clear idea of how they want to spend their retirement years.

Income from retirement savings<sup>α</sup> **\$73,500**

Income from Social Security benefits **\$46,500**

**Total annual household income in retirement \$120,000**



### Is this you?

- Do you belong to a golf, tennis or health club?
- Do you regularly purchase new home furnishings, automobiles, etc.?
- Do you enjoy traveling every year?

<sup>α</sup> Assumes a current annual income of \$62,000, existing taxable savings of \$7,000 and tax-deferred savings of \$4,000, and making a monthly contribution of \$261.

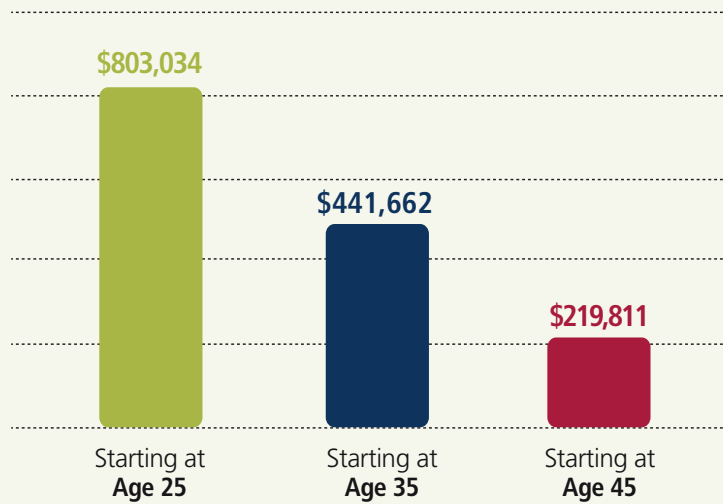
<sup>≈</sup> Assumes a current combined annual income of \$90,000, existing taxable savings of \$62,000 and tax-deferred savings of \$41,000, and making a combined monthly contribution of \$1,587.

<sup>α</sup> Assumes a current combined annual income of \$120,000, existing taxable savings of \$82,000 and tax-deferred savings of \$55,000, and making a combined monthly contribution of \$2,274.



# It's never too early or too late to start

While getting an early start on your retirement can have a significant impact on the growth of your savings down the road – it's important to realize that it's never too late to start.



Retiring at age 65, the person who begins saving at...

- Age 25 saves **\$803,034**
- Age 35 saves **\$441,662**
- Age 45 saves **\$219,811**

That's the advantage of making contributions for a longer time and the power of compound earnings. Which saver would you rather be?

**The important thing is to start today!**

This chart shows an annual investment of \$6,500 from the ages of 25, 35 and 45 until the age of 65. It assumes a steady return of 5%. This chart is for illustrative purposes only and is not meant to portray actual investments. There is no guarantee that the results shown will be achieved or maintained over any time period.



## Step 2

### How much do I need to contribute today?

Now that you have looked at the profiles and have an idea of what you want your retirement to look like, it's time to look at how you are going to start achieving your goal.

The second step in our 1, 2, 3 Go process helps you figure out how much of your current salary you should contribute to your retirement plan on a monthly basis.

**To start with, let's review the different options available to you to start saving for your retirement.**

### Sources of retirement income



#### Your company's retirement plan

- A qualified retirement plan can be one of the best tools available to help you build your financial future.
- Participating is a simple yet effective way to save for retirement.
- You are always in control of your account!



#### Personal Savings

- Do you have savings accounts and individual retirement accounts?
- All of these personal savings sources will help contribute towards your total income once you retire.

plus...

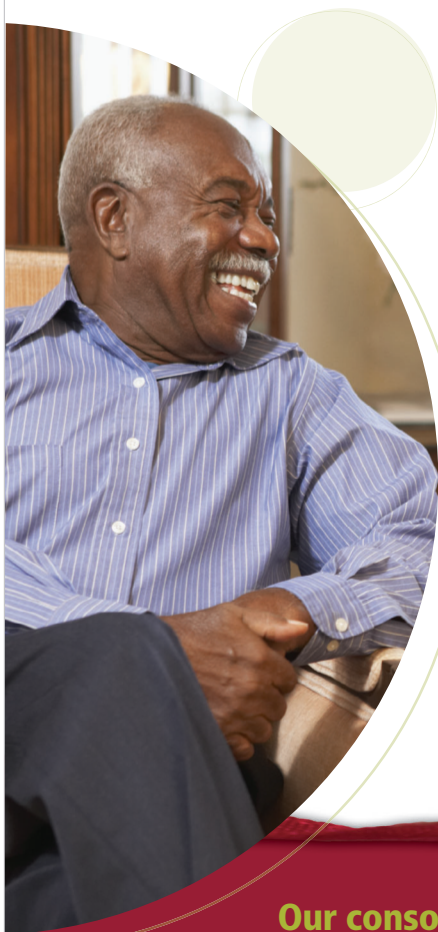


## Want to know what your personal Social Security benefits might look like?

Call the Social Security Administration at 1-800-772-1213, or go online at [www.ssa.gov](http://www.ssa.gov). Don't forget to check your annual Social Security statement.



## ... more sources of retirement income



### Social Security

- Social Security is a social insurance program (funded through payroll taxes) that provides financial support to America's retirees.
- Only about 40% of your pre-retirement income will be replaced by Social Security.\*

\*Social Security Administration, 2014.



### Other Retirement Accounts

- Have you had other jobs where you contributed to a retirement plan (401(k), IRA, etc.)?
- Other retirement accounts will help to contribute towards your total income once you retire.

## Our consolidation specialists make it easy

Do you have another retirement account (401(k), 457(b)\*, 403(b), IRA, etc.)? If so, combining them into your new qualified retirement account with John Hancock can make managing your retirement plan easier and more convenient<sup>^</sup>. To consolidate your accounts, call 1-877-525-7655 to speak with a consolidation specialist who can help.

\* Only government 457(b) accounts may be consolidated into qualified retirement accounts.

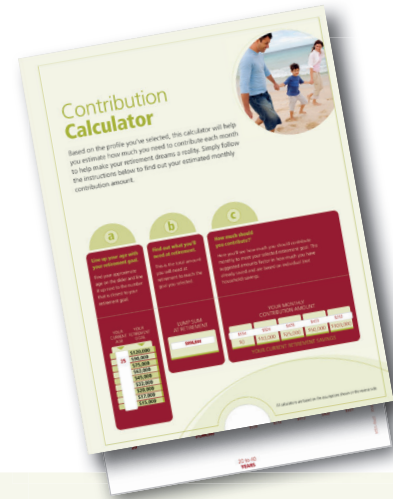
<sup>^</sup> Speak with a Financial Representative to determine if combining your retirement account is suitable for you, as other options are available.



# How much should I start **contributing**?

With an idea of what you have to build your retirement income, let's now turn to determining how much to start contributing to your company's retirement plan.

John Hancock developed a quick and simple way for you to determine an amount for you to contribute on a monthly basis. Our Contribution Calculator uses the retirement profile you selected in Step 1 and your age to come up with a contribution amount for you to contribute monthly today to help reach your goal in retirement.



## An example of calculating a contribution

Jamie is 30 years old, her annual income is \$40,000 and her retirement goal is \$32,000. She currently has \$10,000 already in her retirement savings account. To meet her goal, she should contribute \$124 per month to her qualified retirement plan as per our Contribution Calculator.

### Turning an amount into a percentage

Using the example above, here's how to calculate Jamie's contribution amount as a percentage of income:

$$\text{\$124} \times 12 \text{ months} = \text{\$1,488}$$

$$\text{\$1,488} \div 40,000 = 3.7\%$$

**Formula: (Contribution x 12 months) ÷ annual income = percentage of income**

This hypothetical example is for illustrative purposes only and is based on assumptions in the calculator. There is no guarantee that any investment strategy will achieve its objectives.

### Try the Contribution Calculator Now!

On [www.jhgoenroll.com](http://www.jhgoenroll.com). On your smartphone. Or use the calculator in the back of this book.

jhcalculator.com



## Quick Guide: Contribution amounts and potential tax savings

Annual Salary	% of Annual Salary	Pre-tax Monthly Contribution <sup>++</sup>	Approx. After-tax Monthly Contribution	Approx. Pre-tax Annual Contribution <sup>++</sup>	Approx. After-tax Annual Contribution <sup>##</sup>	Approx. Annual Federal Tax Savings
<b>\$15,000</b>	15%	\$188	\$159	\$2,250	\$1,913	\$338
	12%	\$150	\$128	\$1,800	\$1,530	\$270
	9%	\$113	\$96	\$1,350	\$1,148	\$203
	6%	\$75	\$64	\$900	\$765	\$135
	3%	\$38	\$32	\$450	\$383	\$68
<b>\$20,000</b>	15%	\$250	\$213	\$3,000	\$2,550	\$450
	12%	\$200	\$170	\$2,400	\$2,040	\$360
	9%	\$150	\$128	\$1,800	\$1,530	\$270
	6%	\$100	\$85	\$1,200	\$1,020	\$180
	3%	\$50	\$43	\$600	\$510	\$90
<b>\$30,000</b>	15%	\$375	\$319	\$4,500	\$3,825	\$675
	12%	\$300	\$255	\$3,600	\$3,060	\$540
	9%	\$225	\$191	\$2,700	\$2,295	\$405
	6%	\$150	\$128	\$1,800	\$1,530	\$270
	3%	\$75	\$64	\$900	\$765	\$135
<b>\$40,000</b>	15%	\$500	\$425	\$6,000	\$5,100	\$900
	12%	\$400	\$340	\$4,800	\$4,080	\$720
	9%	\$300	\$255	\$3,600	\$3,060	\$540
	6%	\$200	\$170	\$2,400	\$2,040	\$360
	3%	\$100	\$85	\$1,200	\$1,020	\$180
<b>\$50,000</b>	15%	\$625	\$531	\$7,500	\$6,375	\$1,125
	12%	\$500	\$425	\$6,000	\$5,100	\$900
	9%	\$375	\$319	\$4,500	\$3,825	\$675
	6%	\$250	\$213	\$3,000	\$2,550	\$450
	3%	\$125	\$106	\$1,500	\$1,275	\$225
<b>\$60,000</b>	15%	\$750	\$600	\$9,000	\$7,200	\$1,800
	12%	\$600	\$480	\$7,200	\$5,760	\$1,440
	9%	\$450	\$360	\$5,400	\$4,320	\$1,080
	6%	\$300	\$240	\$3,600	\$2,880	\$720
	3%	\$150	\$120	\$1,800	\$1,440	\$360
<b>\$70,000</b>	15%	\$875	\$700	\$10,500	\$8,400	\$2,100
	12%	\$700	\$560	\$8,400	\$6,720	\$1,680
	9%	\$525	\$420	\$6,300	\$5,040	\$1,260
	6%	\$350	\$280	\$4,200	\$3,360	\$840
	3%	\$175	\$140	\$2,100	\$1,680	\$420
<b>\$80,000</b>	15%	\$1,000	\$800	\$12,000	\$9,600	\$2,400
	12%	\$800	\$640	\$9,600	\$7,680	\$1,920
	9%	\$600	\$480	\$7,200	\$5,760	\$1,440
	6%	\$400	\$320	\$4,800	\$3,840	\$960
	3%	\$200	\$160	\$2,400	\$1,920	\$480

This table can be used as a planning tool to help determine your contribution amounts, and shows the level of federal tax savings you might be able to benefit from. Average salary ranges and contribution amounts as a percentage of salary are also shown. Select your salary today, then review the columns to see the contribution amounts and potential tax savings.

This table is intended as an educational tool only and represents hypothetical mathematical illustrations only. Calculations are estimates and may not provide accurate projections. Your actual circumstances, including current income or retirement needs, may vary. Withdrawals of taxable amounts will be subject to ordinary income tax and, if taken prior to age 59½, a 10% IRS tax penalty may apply. This is not intended as investment or legal advice. To determine the actual tax impact of contributions you make to your retirement plan, consult your tax advisor. Results may vary with each use over time.

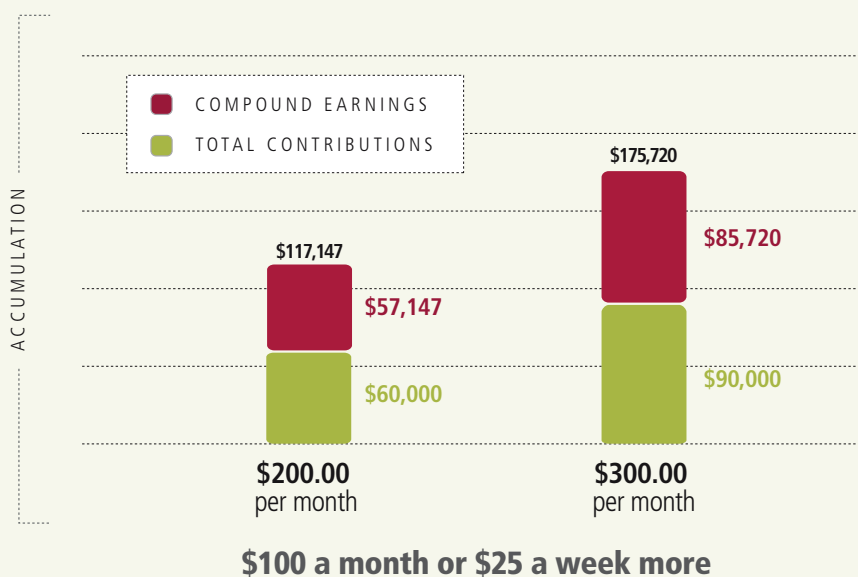
<sup>++</sup> Contribution amounts may include employee and employer contributions made to your company's qualified retirement plan, as well as deposits to other tax-sheltered and non-tax-sheltered accounts. Contributions to tax-sheltered accounts may not exceed plan or regulatory limits.

<sup>##</sup> Calculations for those with a salary from \$15,000 to \$50,000 are based on an individual who is married filing jointly, reporting a taxable income of \$62,000 and a marginal tax rate of 15%. Calculations for those with a salary from \$60,000 to \$80,000 are based on an individual who is married filing jointly, reporting a taxable income of \$120,000 and a marginal tax rate of 20%.



## A small increase can have a big impact

It's surprising how making small increases to your monthly contributions could really add up over time. Let's look at a hypothetical example.\*



Today you are contributing \$200 per month towards your retirement. Over a 25 year period, that can add up to \$117,147. Your contributions total \$60,000, while compound earnings amount to \$57,147.

Suppose you pay off your car loan and decide to put \$100 of that extra money into your retirement plan. Now you are contributing \$300 per month with the same amount of disposable income. However, after 25 years you can have \$175,720. Your contributions total \$90,000, while compound earnings amount to \$85,720.

Simply by putting some of the money from your car loan into your retirement saving, you could retire with an extra \$58,573.

\* Based on a 5% compound interest and monthly contributions over a 25-year period. This example is not intended to represent investment advice. Talk to your financial representative about how this situation may relate to your own. This hypothetical example is for illustrative purposes only. There is no guarantee that the results shown will be achieved or maintained over any time period. This example assumes no withdrawals, does not take into account fees associated with investing which, if included, would reduce the account balance, and assumes reinvestment of earnings. Taxes are due upon withdrawal.



# Step 3

## How should I invest my retirement savings?

You have a retirement goal and know how much you want to start saving. Step 3 of our 1, 2, 3, Go process helps you determine where to put the money you are contributing each month to help you reach your retirement goal.

While knowing how to invest the dollars in your retirement plan might seem complicated right now, John Hancock has developed a number of tools to help you navigate the investment options available to you. Your company has selected a variety of options for you to choose from.

### Did you know?

John Hancock monitors all the investment options in our lineup on an ongoing basis.

It is a fact of life that investments contain risk. While we all want our investments to grow over the years, there is always the possibility that you may lose part (or all) of the original money you put into those investments.

### Let's look at how risk and return can impact your investments.



### What kind of investor are you?

Regardless of your risk tolerance or investment approach, your plan has an option that's right for you.

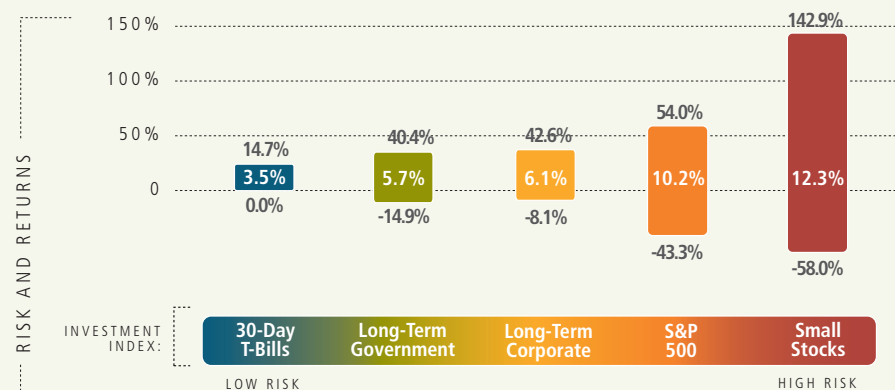


## The relationship between risk and return

Risk and return are directly related. While investments entail a risk that you may lose part (or all) of the original money you invested, it's important to consider the following:

- Historically, investments with greater risk have higher volatility, but also offered greater potential for higher return.
- Historically, conservative investments have lower volatility, but tend to grow more slowly and steadily.

Range of returns 1926 – 2014<sup>††</sup>



This chart shows the historical range of average returns for different types of investments. As you can see, history has shown that the more aggressive an investment is, the more volatile it is. A good rule of thumb is to balance the amount of risk you are willing to assume with an investment's potential for growth.

<sup>††</sup> The performance data shown represents past performance. Past performance is no guarantee of future results and current performance may be lower or higher than the performance shown. Each bar represents the range of annual returns, along with compound average returns, for each asset class over the period January 1926 – December 2014. Average annual rate of inflation over the same time period was 3%. The return and principal value of stocks will fluctuate with changes in market conditions. Indexes are unmanaged, cannot be invested in directly and do not take into account fees and expenses associated with investing.

Treasury bills are represented by the Ibbotson Associates SBBI US 30 Day TBILL Total Return Index. Long-term Corporate bonds are represented by the Ibbotson Associates SBBI US Long Term Corp Total Return Index. Long-term Government bonds are represented by the Ibbotson Associates SBBI US Long Term Govt Total Return Index. Government bonds and treasury bills are guaranteed by the U.S. Government and, if held to maturity, all bonds offer a fixed rate of return and fixed principal value. The S&P 500 is represented by the Ibbotson Associates SBBI US Large Stock Total Return Index and is an unmanaged but commonly used measure of common stock total return performance. Small Cap stocks are represented by the Ibbotson Associates SBBI US Small Stock Total Return Index. Small Cap stocks may be subject to a higher degree of market risk than Large Cap or more established companies' securities. The liquidity of the Small Cap market may adversely affect the value of an investment so that shares, when redeemed, may be worth more or less than their original cost.

Source: Morningstar Direct 2015. Investors may not invest directly in an index.

# Using diversification to manage risk\*

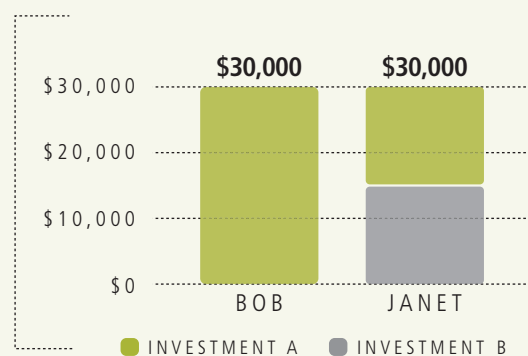
One of the oldest sayings about investing is “don’t put all your eggs in one basket”. Having all of your retirement savings in a single investment or asset class can be risky. If something should happen to that investment or asset class, your savings could be put at risk.

By spreading your money across several types of investments, you end up with investments in multiple areas. That way if one area suffers a loss, you only lose that portion. This is called diversification – investing in multiple investments to create one portfolio with a level of risk you are comfortable with.

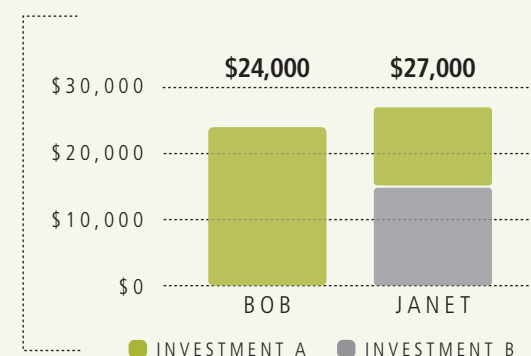
## How diversification works

Imagine two investors, Bob and Janet, each with \$30,000 invested. Bob has put all his money in just one investment. Janet, however, has split her \$30,000 equally between two investments.

Account values before market decline\*



Account values after Investment A declines by 20%\*



Now imagine what happens if Investment A loses some of its value, while Investment B remains stable. Bob, who held only Investment A, sees his portfolio decline by 20% in this case by \$6,000. Janet, however, who was diversified, is less impacted – the investment that dropped by 20% caused her portfolio to decline by only \$3,000 or 10%. Since Janet spread out her investment, her risk was reduced.

Hypothetical example for illustrative purposes only.

\* Neither asset allocation nor diversification ensures a profit or protection against a loss.

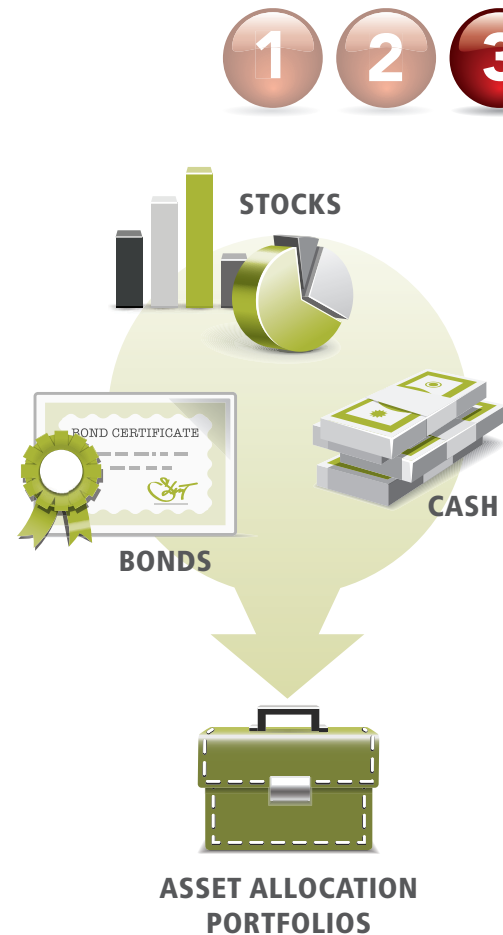
# Asset allocation overview

Retirement planning involves understanding investing and how to allocate and diversify your investments so that you can better withstand the ups and downs of the market over time for a healthy nest egg.

While knowing how to invest the dollars in your retirement plan might seem complicated right now, the choices will become clearer as you go through the terms, ideas and investment options outlined in this section.

## Asset allocation portfolios:

- Balance risk versus return by asset allocation
- Are professionally managed portfolios
- Offer convenience of one-step diversification, which may help you better withstand the ups and downs of the market
- Enable you to invest in more investment options than building a diversified portfolio on your own.



**When allocating your money you may want to think about a number of factors, including:**

- Your anticipated retirement date,
- The length of time you have to save and,
- Your tolerance for risk.

Neither asset allocation nor diversification ensures a profit or protection against a loss. Please note that asset allocation may not be appropriate for all participants particularly those interested in directing investment options on their own.

**To obtain group annuity investment option Fund sheets and prospectuses for each sub-account's underlying investment vehicle call 1-800-395-1113. These documents contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying investment vehicle, which should be carefully considered. Please read these documents carefully prior to investing.**

The term "Funds", refers to sub-accounts investing in underlying mutual funds, offered to qualified retirement plans through a group annuity contract. There can be no assurance that either a Fund or the underlying funds will achieve their investment objectives. A Fund is subject to the same risks as the underlying funds in which it invests, which include the following risks. Stocks can decline due to market, regulatory or economic developments. Investing in foreign securities is subject to certain risks not associated with domestic investing such as currency fluctuations and changes in political and economic conditions. The securities of small capitalization companies are subject to higher volatility than larger, more established companies. High Yield bonds are subject to additional risks such as the increased risk of default (not applicable to Lifestyle Aggressive Portfolio). For a more complete description of these risks, please review the underlying fund's prospectus, which is available upon request. Diversification does not ensure against loss.

Asset allocation portfolios are "fund of funds" which invests in a number of underlying funds. A Fund's ability to achieve its investment objective will depend largely on the ability of the subadvisor to select the appropriate mix of underlying funds and on the underlying funds' ability to meet their investment objectives. There can be no assurance that either a Fund or the underlying funds will achieve their investment objectives. A Fund is subject to the same risks as the underlying funds in which it invests. Each Fund invests in underlying funds which invest in fixed-income securities (including in some cases high yield securities) and equity securities, including foreign securities and engage in Hedging and Other Strategic Transactions. To the extent the Fund invests in these securities directly or engages in Hedging and Other Strategic Transactions, the Fund will be subject to the same risks. As a Fund's asset mix becomes more conservative, the fund becomes more susceptible to risks associated with fixed-income securities. For a more complete description of these risks, please review the underlying fund's prospectus, which is available upon request.

The total revenue John Hancock receives on affiliated Funds is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

# Target Date Portfolios

## Asset allocation based on a target retirement date

**Are you interested in a professionally managed asset allocation option that adjusts its portfolio over time to a more conservative investment mix as it gets closer to, or beyond a target retirement date?** If so, Target Date Portfolios may be for you. These portfolios require periodic ongoing monitoring of the investments in your retirement account.

## How Target Date Portfolios work

The asset mix of each Target Date Portfolio is based on a target date. This is the year that the participants in the Portfolio expect to retire and no longer make contributions. As each Portfolio “glides” over time, its asset mix of investments are adjusted based on the Portfolio’s target date.

### Target Date Portfolios may be for you if you want:

- One step diversification
- Portfolios that are rebalanced and reallocated
- To periodically review your investments.

### Target Date Portfolios

Birth Year	Target Date Portfolios
1986 or later	Retirement at 2055
1981 – 1985	Retirement at 2050
1976 – 1980	Retirement at 2045
<b>1971 – 1975</b>	<b>Retirement at 2040</b>
1966 – 1970	Retirement at 2035
1961 – 1965	Retirement at 2030
1956 – 1960	Retirement at 2025
1951 – 1955	Retirement at 2020
1946 – 1950	Retirement at 2015
1945 or earlier	Retirement at 2010

**For example,** Joe was born in 1971. He reviews his personal circumstances and retirement needs and determines he wants to retire at age 67. The 2040 Portfolio is selected.

If you think Target Date Portfolios may be for you, review the available portfolios on the following pages and you’re ready to enroll. Go to **page 25** for your enrollment options.

**Remember: More details on the Target Date Portfolios available under the plan are provided in the Investment Comparative Chart including applicable fees, in the back pocket. You can find this document and other important plan information on our website or from your plan administrator.**

When making investment decisions, it’s also important to carefully consider your personal circumstances, current savings, monthly earnings and retirement lifestyle goals and risk profile. The principal value of your investment in any of our Retirement Portfolios, as well as your potential rate of return, are not guaranteed at any time, including at or after the target retirement date. Also, neither asset allocation nor diversification ensures a profit or protection against a loss. These Portfolios can suffer losses at any time (including near, at, or after the target retirement date), and there is no guarantee that any of them will provide adequate income at and through your retirement.

There is no guarantee that the subadviser will correctly predict the market or economic conditions and, as with other mutual fund investments, you could lose money even if the fund is at or close to its designated retirement year or in its post-retirement stage.

Diversification does not guarantee a profit or assure against a loss. There is no guarantee that any investment strategy will achieve its objectives.

Each of the target date portfolios invests in a pre-determined mix of underlying funds. Not all underlying funds may be available for direct investment through your qualified retirement plan.



# Lifestyle Portfolios

## Asset allocation based on risk

**Are you interested in an asset allocation strategy based on your tolerance for investment risk?** If so, Lifestyle Portfolios may be for you. They require regular ongoing monitoring of the investments in the fund to maintain the appropriate level of risk.

## How Lifestyle Portfolios work

You determine your level of risk tolerance to establish your investment strategy and style. To help identify your personal risk tolerance, you can take our six-question Risk Quiz in this booklet. When you've determined your comfort level with risk, you can select the Lifestyle Portfolio option that is right for you. As your risk tolerance may change over time, retake the Risk Quiz periodically to determine whether you are still in the appropriate Portfolio.



Determine Risk Strategy	<input type="checkbox"/> Conservative	Moderate	Balanced	Growth	Aggressive <input type="checkbox"/>
Corresponding Lifestyle Options	<input type="checkbox"/> Conservative Portfolio	Moderate Portfolio	Balanced Portfolio	Growth Portfolio	Aggressive Portfolio <input type="checkbox"/>

### Lifestyle Portfolios may be for you if you want:

- One-step diversification
- Professional management to adjust and rebalance the Portfolio, to maintain its risk target
- To determine your risk tolerance to establish your investment strategy and style.

If you think Lifestyle Portfolios may be for you, take the Risk Quiz, review the available investment options and you're ready to enroll. Go to **page 25** for your enrollment options.

**Remember: More details on the Lifestyle Portfolios available under the plan are provided in the Investment Comparative Chart including applicable fees, in the back pocket. You can find this document and other important plan information on our website or from your plan administrator.**

Each of the Lifestyle Portfolios invests in a pre-determined mix of underlying funds. Not all underlying funds may be available for direct investment through your qualified retirement plan.

Diversification does not guarantee a profit or assure against a loss. There is no guarantee that any investment strategy will achieve its objectives.



# Your asset allocation **options**

## Target Date Portfolios

### **JH Retirement through Active Strategies 2010-2055**

- ▶ Designed to take you **through** retirement
- ▶ Professionally managed to “glide” to a more conservative point through your retirement years
- ▶ For an investor who is comfortable with maintaining the current strategy of the fund through their retirement

## Lifestyle Portfolios

### **JH Lifestyle Active Strategies**

- ▶ Designed to correspond to a specific individual risk tolerance
- ▶ 5 portfolios to choose from based on Risk Quiz results
- ▶ Professionally managed to offer an efficient mix of risk and return according to individual risk tolerance

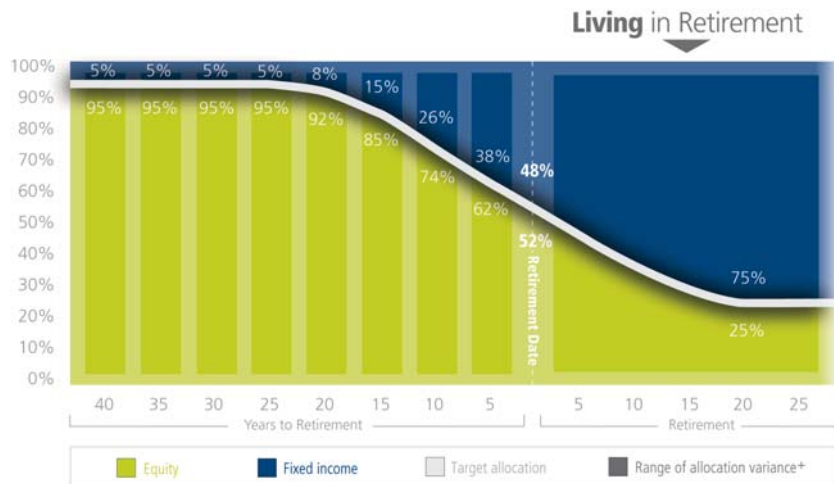




# Target Date Portfolios

## JH Retirement Through Active Strategies – Designed to take you *through* retirement

- ▶ Portfolios are regularly rebalanced and reallocated by our asset allocation experts
- ▶ Managed with the objective of providing an income stream in your retirement years



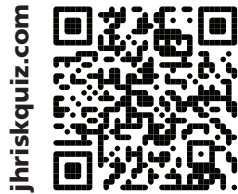
- Higher overall exposure to equities in the Portfolios in the years leading up to and through retirement
- Managed to retain the potential for growth in your investment, in the years leading up to your retirement
- The most conservative point – 25% equity and 75% fixed income – occurs 20 years after retirement\*
- Portfolios are primarily invested in actively managed underlying funds

If you've decided on an appropriate option for you, you're ready to enroll. Go to **page 25** for your enrollment options.

Allocations may vary as a result of market swings or cash allocations held during unusual market or economic conditions.

Diversification does not guarantee a profit or assure against a loss. There is no guarantee that any investment strategy will achieve its objectives.





## Determine your tolerance – The John Hancock Risk Quiz

It's a good idea to take the Risk Quiz, which will help you determine your approach to risk and return. Add up your score\* and match your score to the appropriate color coded investments on the following page.

1

**Your age**

- 5 20–29      2 50–59
- 4 30–39      1 60 or over
- 3 40–49

POINTS

2

**How many years until you plan to retire and begin making withdrawals from your plan?**

- 1 5 years      4 20 years
- 2 10 years      5 25 years or more
- 3 15 years

POINTS

3

**The value of some investments may fluctuate significantly over time. If you invest \$10,000, what level of decline would you be willing to tolerate over five years?**

- 1 Down to \$9,500 (a 5% decline)
- 2 Down to \$9,000 (a 10% decline)
- 3 Down to \$8,500 (a 15% decline)
- 4 Down to \$8,000 (a 20% decline)

POINTS

4

**How comfortable do you feel with at least a portion of your investments invested in the stock market?**

- 5 Very comfortable
- 4 Comfortable
- 3 Neutral
- 2 Uncomfortable
- 1 Very uncomfortable

POINTS

5

**Which statement best describes your willingness to accept risk in order to achieve potentially higher returns?**

- 5 I am willing to accept a high level of risk in exchange for the potential for growth.
- 4 I am willing to accept a moderate level of risk.
- 3 I am willing to accept some risk in my investment options.
- 2 I am willing to accept a little bit of risk in my investment options, but am concerned more with security.
- 1 I prefer more consistent returns because security is my priority.

POINTS

6

**Do you agree you can meet your retirement goals based on your current salary and savings outside of your qualified investment plan?**

- 5 Strongly agree
- 4 Agree
- 3 Neutral
- 2 Disagree
- 1 Strongly disagree

POINTS

**Add up your points here for your total score:**

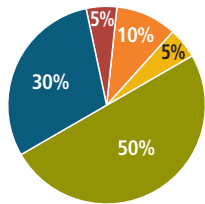
**Note the year you took this quiz:**

Your quiz results may change over time. We encourage you to take the Risk Quiz each year to make sure that your risk profile accurately matches your risk tolerance. At any time you can take the Risk Quiz online at [www.jhpensions.com](http://www.jhpensions.com).

\* The results are based on generally accepted investment principles, but by no means are you bound by the results or should you consider the results as investment advice. There is no guarantee that any particular asset allocation or mix of funds will meet your investment objectives. All investments involve risks, and fluctuations in the financial markets and other factors may cause declines in the value of your account.



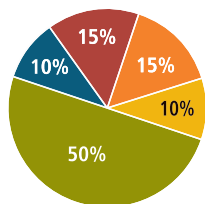
# Now match the total of the Risk Quiz to a risk strategy:



## 6 – 10 points: **Conservative**

If the statements below apply to you, a conservative portfolio may be right for you:

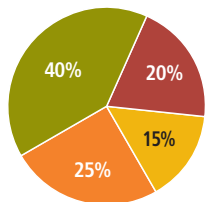
- Slow and steady is the best way to describe my approach to investing. I'm most comfortable contributing to my retirement plan on a regular basis and not taking much risk.
- I don't normally play the stock market but I realize it's important to diversify my portfolio to meet my retirement goals.



## 11 – 15 points: **Moderate**

If the statements below apply to you, a moderate portfolio may be right for you:

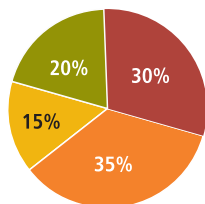
- I'm comfortable knowing that my money is protected from extreme market fluctuations. I'm comfortable investing in some stocks, but I don't want to worry that my retirement savings are losing money.
- I want to increase my retirement savings but provide some protection for what I have.



## 16 – 20 points: **Balanced**

If the statements below apply to you, a balanced portfolio may be right for you:

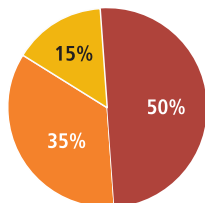
- I understand investing and am willing to take some risk to help my money grow, although I want a balance between building and protecting my money.
- Middle of the road – that's me. I want a diversified and balanced approach.



## 21 – 25 points: **Growth**

If the statements below apply to you, a growth portfolio may be right for you:

- My aim is to make my money grow. I have very definite goals for my retirement and know that investing over the long term can help me reach them.
- I understand there are short term risks and a potential for large swings in the stock market. But over the long term, I feel confident that equities offer the highest potential for growth.



## 26 – 29 points: **Aggressive**

If the statements below apply to you, an aggressive portfolio may be right for you:

- I have an iron stomach and I'm willing to take significant risk for the chance to make money.
- I have time to wait out market cycles because I'm confident that my savings will continue to grow.

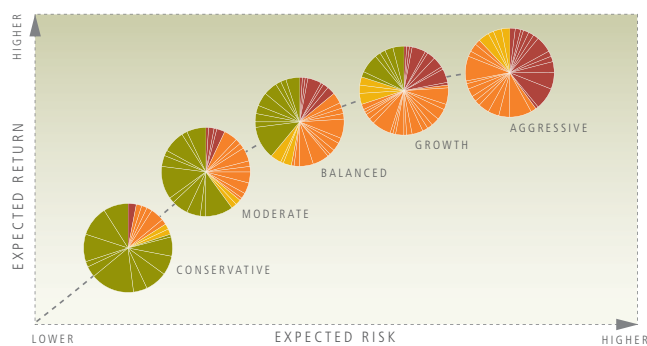
## Investment types:



The categorization of investment type as "Conservative," "Moderate," "Balanced," "Growth," and "Aggressive" in terms of the results of the risk profile are simply suggestions for consideration. This material is not intended to replace the advice of a qualified financial professional. Before making any financial commitment regarding the issues discussed here, consider consulting with the appropriate financial professional to determine risk tolerances and the suitability of various investments and asset allocations in view of your individual, financial, investment, tax, family and other personal considerations.

# Lifestyle Portfolios

## JH Lifestyle Active Strategies



- Professionally managed, by John Hancock, to offer an efficient mix of risk and return according to individual risk tolerance
- Provides one-step diversification in the form of five color-coded investment alternatives that match five distinct risk strategies (conservative to aggressive)
- Managed to retain potential for growth in your investments leading up to retirement

If you've decided on an appropriate option for you, you're ready to enroll. Go to **page 25** for your enrollment options.

Diversification does not guarantee a profit or assure against a loss. There is no guarantee that any investment strategy will achieve its objectives.







# Build Your Own Portfolio Mix

## Do-it-yourself Asset Allocation

Are you the type of person who wants to be actively involved in the research, diversification, selection and management of your retirement account? If this is the case, constructing your own portfolio mix from the available Funds and handling the asset allocation yourself may be for you.

It is important to start by understanding the relationship between your tolerance for risk and the types of investments that will be most appropriate.

### Investment types available:

- Guaranteed Interest Accounts (if applicable)\*
- Sub-accounts (Funds)\*\*:
  - Money Market Funds
  - Bond Funds
  - Stock Funds.

Although a Money Market Fund seeks to preserve the value of your investment, it is possible to lose money by investing in such a fund. Not insured by the FDIC, the Federal Reserve Board or any agency.

Contributions to a sub-account — also called a Fund — are pooled with those of other plan participants and are invested in underlying mutual funds. The underlying mutual funds may invest in stocks, bonds, money market instruments and other securities. When you invest in a sub-account your contribution purchases units of that Fund. For example, if the unit value is \$50 and you contribute \$100, then you purchase two units of that Fund. Unit values rise and fall each day and their movements affect the overall value of the Fund and your contributions to that Fund. Sub-accounts include the Lifestyle Portfolios, the Lifecycle Portfolios and other Fund options, color-coded to indicate investment risk.

### Build Your Own Portfolio Mix may be for you if you want:

- To frequently review your investments
- To be in control of your asset allocation and construct your own portfolio mix
- To handle the ongoing monitoring and rebalancing of your portfolio.

\* When contributions are allocated to the Guaranteed Interest Account, they will be held in the John Hancock USA general account or John Hancock New York general account, as applicable. Both the principal invested and interest on guaranteed accounts are subject to the claims-paying ability of John Hancock USA or John Hancock New York, as applicable, but are not insured by the FDIC, the Federal Reserve Board or any agency.

\*\* A sub-account is an account within a separate account established or maintained by an insurance company. John Hancock's group annuity contracts offer various sub-accounts. These separate accounts operate apart from and are insulated from the general assets and liabilities of the company. Sub-accounts are not insured by the FDIC, the Federal Reserve Board or any agency and are subject to investment risks, including possible loss of the principal amount invested.

**To obtain group annuity investment option Fund sheets and prospectuses for each sub-account's underlying investment vehicle call 1-800-395-1113. These documents contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying investment vehicle, which should be carefully considered. Please read these documents carefully prior to investing.**





If you want to diversify, consider including different types of Funds within each risk category to build a diversified portfolio that matches your overall risk strategy.

## Do-it-yourself diversification

- Take the John Hancock Risk quiz to determine your tolerance for risk. Each Fund in our lineup is color-coded to match one of five risk categories.
- Next, take the time to research the Funds available to you through your company's retirement plan. Carefully review the Fund details including fees, returns and other important information for each investment option you are considering.
- Determine which Funds you want to add to your portfolio and how much of your contribution to put into each Fund. Be sure that the total of your investments equals 100%.
- Finally remember to regularly monitor your Funds and Fund mix to reallocate and rebalance as required.

## Your investment options

Refer to the Investment Comparative Chart in the back pocket for important information, including applicable fees. The information provided is in an easy to read format allowing you to make comparisons of your investment options against a relevant broad-based index.

For more information on investment options:

To view all the investment options, including individual Fund sheets, available in your company's qualified retirement plan, go to **[www.jhefund.com/C120448E496370](http://www.jhefund.com/C120448E496370)** or scan this QR code.





# Congratulations!

You have a retirement goal. You have figured out how much you want to contribute. And you have selected how you want to invest your money. You are all ready to Go!

## Enrolling – the choice is yours



On the phone

Call us at 1-855-JHENROLL

Online  
Go to [www.jhgoenroll.com](http://www.jhgoenroll.com)



You will need your Contract number and your Enrollment access number. It's quick and easy!



Enroll in a minute using your smart phone.

### Use the enrollment form

Complete the enrollment form provided by your plan administrator.







# The road to retirement **checklist**

Help keep your retirement  
dreams on track

- ☒ Join your company's retirement plan
- ☐ Get a personalized Retirement Action Plan
- ☐ Register for our website
- ☐ Check out our online interactive financial planning tools
- ☐ Learn more on the fundamentals of investing
- ☐ Consider combining retirement accounts
- ☐ Review your statements

## Your Notes







RETIREMENT PLAN  
SERVICES

## Contribution Calculator

Click the **button** to use the calculator



### About you

Date of Birth  
Jan. 1 1980

State of Residence  
Connecticut

Current Annual Income  
\$50,000

Payroll Frequency  
Twice a month

Current Retirement Savings  
\$10,000

**\$62,000**

Annual Retirement Income Goal

What you'll need at retirement:  
**\$612,976**

To get there, you'll need to contribute:  
**\$243 /paycheck**

I want to contribute **12%** /paycheck  
on a before-tax basis to my qualified retirement account.

These contributions would save **\$1,168** /year in taxes, and lower your take-home pay by **\$195** /paycheck

Note: internet access is required



**To obtain group annuity investment option Fund sheets and prospectuses for each sub-account's underlying investment vehicle, call 1-800-395-1113. These documents contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying investment vehicle, which should be considered carefully. Please read these documents carefully prior to investing.**

This information does not constitute legal or tax advice with respect to any taxpayer. It was neither written nor intended for use by any such taxpayer for the purpose of avoiding penalties, and it cannot be so used. If it is used or referred to in promoting, marketing or recommending any transaction or matter addressed herein, it should be understood as having been written to support such promotion, marketing or recommendation, and any taxpayer receiving it should seek advice based on the taxpayer's particular circumstances from an independent tax advisor.

All contract and rider guarantees, including optional benefits, credited rate of interest or annuity purchase rates, are backed by the claims-paying ability of John Hancock. They are not backed by the broker/dealer from which this contract is purchased, by the insurance agency from which this contract is purchased or any affiliates of those entities and none makes any representations or guarantees regarding the claims-paying ability of the issuer.

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**John Hancock Retirement Plan Services**

P.O. Box 600  
Buffalo, NY 14201-0600



<b>Fall 2015 Fund Changes</b>
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John Hancock recently announced a number of changes and enhancements to the JH Signature™ investment lineup. The changes, which may impact some of the Fund information contained in this booklet, will commence in October and conclude in November 2015, subject to regulatory and other approvals.

**How to obtain additional information**

If you have any questions or concerns about the proposed changes, please speak to your plan administrator or call our toll-free telephone service at 1-800-395-1113. Once enrolled, you may also visit [www.jhpensions.com](http://www.jhpensions.com) or [www.jhnpensions.com](http://www.jhnpensions.com) for participants in New York-domiciled plans.

**To obtain group annuity investment option Fund sheets and prospectuses for each sub-account's underlying investment vehicle call 1-800-395-1113. These documents contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying investment vehicle, which should be carefully considered. Please read these documents carefully prior to investing.**

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JH Signature™ is a trademark for the service package for the Group Annuity Contracts and recordkeeping agreements issued by John Hancock.

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# Table of contents

<b>SECTION 1</b>	<b>How to read a fund sheet</b>	<b>1</b>
<b>SECTION 2</b>	<b>Asset manager profiles</b>	<b>3</b>
<b>SECTION 3</b>	<b>Risk disclosures</b>	<b>6</b>
<b>Investment options (Fund Code)</b>		
500 Index Fund (IND)		35
Active Bond Fund (DVB)		26
American Balanced Fund (ABF)		31
Aston/Fairpointe Mid Cap Fund (AOM)		49
Baird MidCap Fund (BAI)		39
Capital Appreciation Fund (CPA)		40
DFA US Small Cap Fund (SCP)		46
EuroPacific Growth Fund (EPG)		44
Fidelity Contra Fund (CON)		34
Franklin Mutual Global Discovery Fund (DIS)		33
Fundamental Large Cap Value Fund (EQI)		30
High Yield Fund (HYF)		29
International Value Fund (ITV)		51
JH Lifestyle Aggressive - Active Strategies (ALS)		23
JH Lifestyle Balanced - Active Strategies (BLS)		21
JH Lifestyle Conservative - Active Strategies (CLS)		19
JH Lifestyle Growth - Active Strategies (GLS)		22
JH Lifestyle Moderate - Active Strategies (MLS)		20
JH Retirement Through 2010 - Active Strategies (LXB)		9
JH Retirement Through 2015 - Active Strategies (LXC)		10
JH Retirement Through 2020 - Active Strategies (LXD)		11
JH Retirement Through 2025 - Active Strategies (LXE)		12
JH Retirement Through 2030 - Active Strategies (LXF)		13
JH Retirement Through 2035 - Active Strategies (LXG)		14
JH Retirement Through 2040 - Active Strategies (LXH)		15
JH Retirement Through 2045 - Active Strategies (LXI)		16
JH Retirement Through 2050 - Active Strategies (LXJ)		17
JH Retirement Through 2055 - Active Strategies (LXK)		18
Mid Cap Index Fund (MCI)		42
Money Market Fund (MMR)		24
Oppenheimer Developing Markets Fund (DMK)		47
Oppenheimer Global Fund (WWF)		45
Parnassus Core Equity Fund (PEI)		32
PIMCO Global Bond Fund (PFB)		27
Prudential Jennison Mid Cap Growth Fund (JMG)		38
Real Estate Securities Fund (REF)		43
Royce Opportunity Fund (OPP)		53
Strategic Income Opportunities Fund (SIM)		28
T. Rowe Price Science & Technology Fund (SCT)		50
Utilities Fund (ULT)		37
Value Fund (VLF)		41
Vanguard Energy Fund (VEN)		52
Vanguard Short-Term Federal Fund (GOV)		25
Vanguard Small Cap Growth Index Fund (VSG)		48
Vanguard Value Index Fund (LVI)		36
<b>¥ Important notes</b>		<b>54</b>

In the following pages, you'll find a detailed Fund sheet for each of your investment options. You can take advantage of this resource to help select which investment options you'd like to use to build your retirement account.

The Fund sheets are color-coded in five different colors to make it easier to identify their risk characteristics. Each color identifies the level of risk of the investment option\*. Your plan may have chosen not to offer investment options in all categories.

Conservative

Income

Growth &amp; income

Growth

Aggressive Growth

## Here are some tips for understanding the Fund sheets:

### a Risk/return category

The Risk/return category tells you the level of risk and potential return of the investment option relative to the others in the lineup. Please note, the risk/return category is not applicable to Target Date Portfolios as these are date-based Funds, rather than risk-based.

### b Asset class/Investment style

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

### c Performance

Performance reflects reinvestment of dividends and capital gains and deductions for the Expense Ratio (ER). Refer to the "Important Terminology" section of the enrollment book for a description of fees. Performance does not reflect any applicable contract-level or certain participant-level charges, fees for guaranteed benefits if elected by participant under the group annuity contract or redemption fees imposed by the underlying Portfolio. Investment option performance is hypothetical based on the underlying portfolio for any period prior to the sub-account inception date.

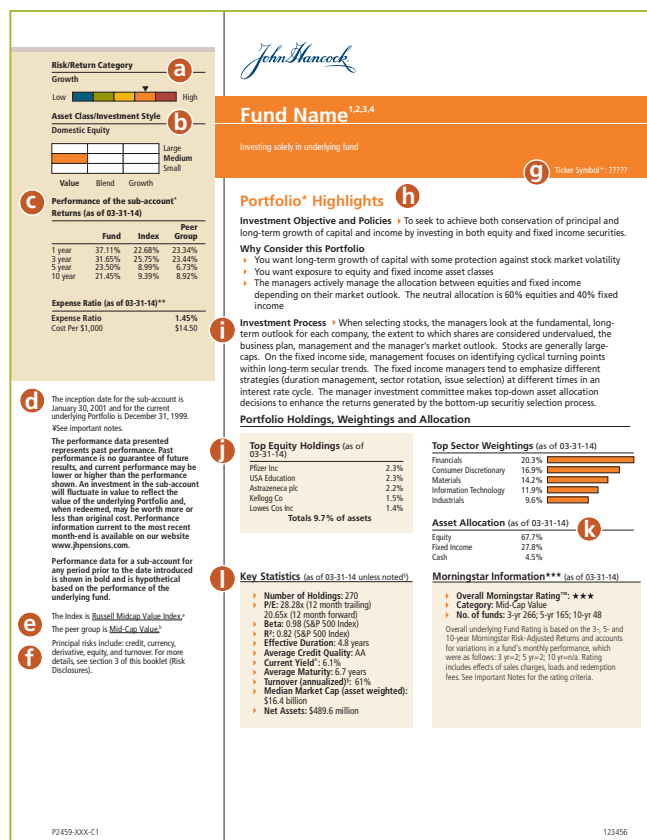
For information on investment returns and expense ratio charges, see the previous Returns & Fees summary in this section. This information is also available at [www.jhnpensions.com](http://www.jhnpensions.com) for participants in New York-domiciled plans. For participants in plans domiciled in all other states, go to [www.jhpensions.com](http://www.jhpensions.com) or (through our toll-free interactive voice response system) 1-800-395-1113 once you've enrolled.

### d Fund inception date

The date the investment option was first available under a John Hancock group annuity contract.

### e Index/Peer Group

This shows you the specific benchmark index and peer group used as a standard against which the performance of the fund can be measured. John Hancock determines the peer groups and indexes based on what it believes is the closest match in terms of investment objectives, policies, processes and style. More detailed information regarding the specific benchmarks can be found in the Important Notes section.





## **f Risk Disclosure(s)**

This section outlines potential risks associated with the particular sub-account. Detailed descriptions of these risks and of additional risks that apply to investments in mutual funds generally appear under the Risk Disclosures section.

## **g Ticker symbol**

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

## **h Portfolio highlights**

The Objectives and Policies are described here, along with any features of interest about the Fund or its management.

## **i Investment process**

This section explains the manager's approach to investing and the types of investments the Fund typically holds, including sectors or industries, markets, company size, etc.

## **j Top holdings**

This shows you the investments that make up the largest proportion of assets in the portfolio. If this is a stock fund, you will also see information on sector (or industry) weightings, showing you how much the fund holds in each major industrial sector. If it is an international fund, you will also see information on country weightings, or how much the fund holds in different countries.

## **k Asset allocation**

This shows how the fund's holdings are allocated between general asset classes: equity, fixed income and cash.

## **l Key statistics**

This section provides additional statistics about the underlying fund. Following is some of the information you will find here, depending on whether the fund invests in bonds or stocks:

**Number of holdings:** The number of holdings the fund is currently invested in.

**Turnover Ratio:** The lesser of the total sales or purchases of a fund in a year divided by its average monthly assets for the

year. The Turnover Ratio shown is based on the most recent available financial statements for the underlying mutual fund as of the date of printing and is subject to change

**Net assets:** The combined net value of all the holdings in the Fund

**P/E Ratio:** The current share price divided by twelve-months' earnings per share. Shows you what the value of a stock is, compared to its earnings strength

**Beta:** Shows the volatility of the fund relative to its benchmark index. A beta greater than 1.0 means the fund historically has been more volatile than its index, while a beta less than 1.0 means the fund has historically been less volatile than its index

**R-squared:** The degree to which the fund and its benchmark index are correlated. The closer it is to 1.0, the more similar the historical performance between the two

**Effective duration:** The weighted maturity of a bond's cash flows, used to estimate the price sensitivity of bonds for a given change in interest rates. Always equal to or shorter than the maturity, it shows the risk of interest rate changes on reinvesting the periodic interest payments of a bond

**Average maturity:** The average of the maturity lengths (the dates the bonds come due) of all the bonds in a fixed income fund

**Median market cap:** The market capitalization of the single stock, which represents the middle of the fund's securities ranked by market capitalization. Half of the securities in the fund is invested in stocks larger than the median and the other half is invested in stocks smaller than the median

**Sharpe Ratio:** The Sharpe Ratio is calculated by subtracting the risk-free rate from the rate of return of a portfolio and dividing the result by the standard deviation of portfolio returns

**Yield to Maturity (YTM):** The rate of return anticipated on a bond if held until the end of its lifetime

**Average Credit Quality:** The weighted average of all the bond credit ratings in a bond fund

## **Portfolio management**

This is the next section and provides information about the asset manager responsible for managing the fund.

## **Important notes**

This is the last section and provides important additional information about the investment option's holdings and historical performance, and our short term trading guidelines\*\*.

\* The placement of investment options within style boxes and according to potential risk/return shows John Hancock's assessment of those options relative to one another and are not necessarily comparable with other investment options available outside of John Hancock. John Hancock determines peer groups and indexes based on what it believes is the closest match in terms of investment objectives, policies, processes and style. Each investment option's peer group, index, and style box and risk/return spectrum placement is subject to change.

\*\*The underlying mutual fund companies, collective trusts, or ETFs have the right to restrict trade activity without prior notice if a participant's trading is determined to be in excess of their exchange policy, as stated in the fund prospectus which is available upon request. See the Important Notes section of the Investments information for details of John Hancock's short-term trading policy.

**John Hancock USA**

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

- ▶ John Hancock Financial is a division of Manulife, a leading Canada-based financial services group with principal operations in Asia, Canada and the United States. Operating as Manulife in Canada and Asia, and primarily as John Hancock in the United States, our group of companies offers clients a diverse range of financial protection products and wealth management services through its extensive network of employees, agents and distribution partners. Assets under management by Manulife and its subsidiaries were C\$821 billion (US\$648 billion) as at March 31, 2015. Manulife Financial Corporation trades as 'MFC' on the TSX, NYSE and PSE, and under '945' on the SEHK. Manulife can be found on the Internet at [manulife.com](http://manulife.com).
- ▶ The John Hancock unit, through its insurance companies, comprises one of the largest life insurers in the United States. John Hancock offers and administers a broad range of financial products, including life insurance, annuities, investments, 401(k) plans, long-term care insurance, college savings, and other forms of business insurance.
- ▶ Additional information about John Hancock may be found at [johnhancock.com](http://johnhancock.com)

**American Funds Group (American Funds)**

- ▶ American Funds, part of Capital GroupSM, has helped investors pursue long-term investment success since 1931. Its consistent approach — in combination with The Capital SystemSM — seeks to achieve superior results over time.
- ▶ The Capital System combines individual accountability with teamwork. Each fund is divided into portions that are managed independently by investment professionals with diverse backgrounds, ages and approaches. An extensive global research effort is the backbone of our system. Investment decisions are based on a long-term perspective, which American Funds believes aligns with the interests of investors.

**Declaration Management & Research LLC**

- ▶ Declaration Management & Research LLC ("Declaration") is an SEC registered investment adviser specializing in fixed income management. Declaration was founded in 1989 and is located in McLean, Virginia. The firm is a Manulife Asset Management Company, indirectly wholly owned by John Hancock Life Insurance Company (U.S.A.), a unit of Manulife Financial Corporation. Declaration manages core and alternative investment strategies for institutional investors, wealth management platforms and absolute return vehicles. Throughout the years, our mission has remained constant: to deliver high quality, innovative investment management services to our clients.

**Deutsche Asset Management (DeAM)**

- ▶ Deutsche Bank was founded in 1870 by a number of private bankers. The firm's stated purpose then was to transact banking of all kinds, in particular to promote and facilitate trade relations between Germany, other European countries and overseas markets. This broad vision fits Deutsche Bank as well today as it did over 136 years ago. With the globalization and evolution of the world's economies and markets, technological progress and the acquisition of major banks and asset managers, Deutsche Bank has evolved more in the last 25 years than in the preceding century.
- ▶ Deutsche Asset Management offers its strategies through both retail and institutional channels. In general, our institutional business markets its' capabilities, through separately managed accounts and institutional commingled funds, under the Deutsche Asset Management brand name, while our retail franchise focuses mainly on open-end, closed-end and offshore funds marketed under the DWS Investments brand name.

**Dimensional Fund Advisors**

- ▶ Working years ahead of the industry, Dimensional forged a new way to invest. The firm inaugurated its strategies in 1981 with early research into the stronger performance of small cap stocks. Later, a comprehensive analysis of stock prices worldwide deepened the strategy repertoire and set a new standard for portfolio design. This evolution reflects an abiding belief in financial science and the efficacy of capital markets.
- ▶ Invesco is a global organization, solely focused on investment management. We direct all of our intellectual capital, global strength and operational stability toward helping investor achieve their long term financial objectives. We offer a wide range of single-country, regional and global capabilities across major equity, fixed income and alternative asset classes, delivered through a diverse set of investment vehicles.

**Fairpointe Capital, LLC**

- ▶ Aston Asset Management, LP (Aston) based in Chicago, Illinois, provides investment management services to the mutual fund and managed accounts markets by carefully selecting, monitoring, and marketing experienced boutique investment managers using disciplined investment processes and best-in-class business standards. From the initial due diligence on an investment manager to the launching of a new Aston Fund, we take measured steps to ensure congruence between the requirements of Aston, the capabilities of the subadviser, and the needs of investors. Fairpointe Capital LLC (Chicago, IL) employs a disciplined fundamental "bottom-up" process to select companies that are inefficiently priced relative to their growth outlook.

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**Fidelity Management & Research Co.**

- ▶ Fidelity Investments is one of the world's largest providers of financial services. Fidelity offers investment management, retirement planning, brokerage, and human resources and benefits outsourcing services to over 20 million individuals and institutions as well as through 5,000 financial intermediary firms. The firm is the largest mutual fund company in the United States, the No. 1 provider of workplace retirement savings plans, the largest mutual fund supermarket and a leading online brokerage firm.

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**Franklin Templeton**

- ▶ Franklin Resources, Inc., is a global investment management organization operating as Franklin Templeton Investments. Franklin Templeton Investments provides global and domestic investment management solutions managed by its Franklin, Templeton, Mutual Series, Fiduciary Trust, Darby and Bissett investment teams. The San Mateo, CA-based company has more than 65 years of investment experience. For more information, please visit [franklinresources.com](http://franklinresources.com).

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**Invesco Advisors, Inc.**

- ▶ Invesco is a global organization, solely focused on investment management. We direct all of our intellectual capital, global strength and operational stability toward helping investor achieve their long term financial objectives. We offer a wide range of single-country, regional and global capabilities across major equity, fixed income and alternative asset classes, delivered through a diverse set of investment vehicles.

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**Jennison Associates LLC**

- ▶ Jennison Associates LLC constructs portfolios from the bottom up, based on the fundamentals of individual companies. The firm's investment capabilities span market capitalizations, styles, and geographies and include a range of equity, balanced, and fixed income strategies for institutional, retail, and subadvisory clients. Additional information about the firm is available at [Jennison.com](http://Jennison.com).

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**John Hancock Asset Management**

- ▶ John Hancock Asset Management is a Boston-based firm, focused on investment management for institutional clients. Built on investment principles developed over 35 years, John Hancock Asset Management offers a diverse selection of actively managed equity and fixed income strategies across the investment spectrum. Our strategies are managed through a disciplined investment process that seeks to provide consistently superior returns
- ▶ The key elements of our process are: A commitment to a team approach to portfolio management; focused fundamental research and skilled portfolio construction and risk analysis.
- ▶ John Hancock Asset Management a division of Manulife Asset Management (US) LLC, is the international investment brand of Manulife Financial

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**MFS Investment Management**

- ▶ MFS Investment Management (MFS) is a global asset management firm serving investors worldwide. Our global research team covers the world through their offices in nine locations- Boston, Hong Kong, London, Mexico City, São Paulo, Singapore, Sydney, Tokyo and Toronto; offering a comprehensive selection of financial products and services. Founded in 1924 with the creation of the first open-end U.S. mutual fund, MFS continues to draw on an investment heritage that emphasizes integrity, teamwork, and original research. MFS' offers a complete selection of financial products and services to address investors' varying needs over time, including more than 100 mutual funds, wealth management services, and investment services for institutional investors. For more information, please refer to [www.mfs.com](http://www.mfs.com).

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**OppenheimerFunds Inc.**

- ▶ OppenheimerFunds, Inc. has been helping investors achieve their financial goals since 1960. We are one of the nation's largest and most respected asset management companies. OppenheimerFunds and its controlled affiliates offer a broad range of products and services to individuals, corporations and institutions, including mutual funds, separately managed accounts, investment management for institutions, qualified retirement plans and subadvisory investment-management services.

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**Pacific Investment Management Company (PIMCO)**

- ▶ Founded in 1971, PIMCO is a subsidiary of Allianz Global Investors. With an emphasis on fixed income management, PIMCO is one of the largest active bond managers in the United States.

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**Parnassus Investments**

- ▶ Founded in 1984, Parnassus Investments is an independent and employee-owned investment management company based in San Francisco, CA. Parnassus Investments aims to provide investors with investment strategies that will enable them to build wealth responsibly. The firm seeks to invest in good businesses that have increasingly relevant products or services, sustainable competitive advantages, quality management teams and ethical business practices. The firm manages five fundamental, U.S., core equity strategies across multiple market capitalizations and one U.S., intermediate, government/credit fixed-income strategy.

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**Prudential Jennison Associates LLC**

- ▶ Jennison Associates LLC constructs portfolios from the bottom up, based on the fundamentals of individual companies. The firm's investment capabilities span market capitalizations, styles, and geographies and include a range of equity, balanced, and fixed income strategies for institutional, retail, and subadvisory clients. Additional information about the firm is available at [Jennison.com](http://Jennison.com).

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**Robert W. Baird & Co. Incorporated.**

- ▶ Baird Investment Management is an experienced team of equity portfolio managers and research analysts. For more than three decades, their well-defined investment philosophy has utilized a long-term perspective and specialized market knowledge in their mission to provide growth, preserve capital and control risk for investors.
- ▶ BIM's managers and analysts have extensive experience, individually and working together, within the specialized areas of growth, value and core equity investing.
- ▶ For nearly 95 years, Baird has been a strong, stable and trusted financial partner across generations and through many market cycles.
- ▶ Baird serves individuals, families, businesses and communities across the United States as well as institutional clients around the globe from more than 100 offices on three continents.

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**Royce & Associates, LLC (Royce)**

- ▶ Royce & Associates, LLC, was founded in 1972. On October 1, 2001, Royce & Associates LLC became a wholly owned, independent subsidiary of Legg Mason, Inc. Royce focuses exclusively on small and micro-cap stocks and distinguishes itself as a small-cap value manager. They offer an investor more than 25 years of experience coupled with an ongoing commitment to an investment style founded on consistency and discipline, one that emphasizes building long-term returns while seeking to manage risk.

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**T. Rowe Price Associates, Inc. (T. Rowe Price)**

- ▶ Founded in 1937, T. Rowe Price provides a broad array of mutual funds, subadvisory services, and separate account management for individual and institutional investors, retirement plans, and financial intermediaries. Portfolio Managers access analysts based in the U.S. and around the world in key financial centers such as Hong Kong, Buenos Aires, Singapore, and London.
- ▶ The firm supports one of the industry's largest proprietary research efforts providing a disciplined, risk-aware investment approach focused on diversification, style consistency, and fundamental research.

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**Vanguard Group, Inc.**

- ▶ Since its beginning in 1975, Vanguard has grown to become one of the world's largest investment management companies. Vanguard provides an array of investment products, including a full range of low-cost ETFs and mutual funds designed to help financial advisors grow and preserve the wealth of their clients. In addition to our many investments and client-focused services, our commitment to financial advisors includes innovative practice management solutions that can help advisors attract and retain clients, build their practices, and enhance their professional development.

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**Western Asset Management Company**

- ▶ Western Asset is one of the world's leading investment management firms. Its sole business is managing fixed-income portfolios, an activity the Firm has pursued since 1971. From offices in Pasadena, New York, Sao Paulo, London, Dubai, Singapore, Hong Kong, Tokyo and Melbourne, Western Asset performs investment services for a wide variety of global clients. The Firm's clients include charitable, corporate, health care, insurance, mutual fund, public and union organizations, and client portfolios range across an equally wide variety of mandates, from money markets to emerging markets.

## SECTION 3 Risk disclosures

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

### Risks Applicable to All Funds

**Credit and Counterparty Risk.** A fund is subject to the risk that the issuer or guarantor of a fixed-income security or other obligation, the counterparty to a derivatives contract or repurchase agreement, or the borrower of a fund's securities will be unable or unwilling to make timely principal, interest, or settlement payments, or to otherwise honor its obligations.

**Issuer Risk.** An issuer of a security purchased by a fund may perform poorly, and, therefore, the value of its stocks and bonds may decline. Poor performance may be caused by poor management decisions, competitive pressures, breakthroughs in technology, reliance on suppliers, labor problems or shortages, corporate restructurings, fraudulent disclosures, or other factors.

**Liquidity Risk.** A fund is exposed to liquidity risk when trading volume, lack of a market maker, or legal restrictions impair the fund's ability to sell particular securities or close derivative positions at an advantageous price. Funds with investment strategies that involve securities of companies with smaller market capitalizations, foreign securities, derivatives, or securities with substantial market and/or credit risk tend to have the greatest exposure to liquidity risk.

**Manager Risk.** The performance of a fund that is actively managed will reflect in part the ability of the manager to make investment decisions that are suited to achieving the fund's investment objective. Depending on the manager's investment decisions, a fund may not reach its investment objective or it could underperform its peers or lose money.

**Market Risk.** The value of a fund's securities may go down in response to overall stock or bond market movements. Markets tend to move in cycles, with periods of rising prices and periods of falling prices. Stocks tend to go up and down in value more than bonds. If the fund's investments are concentrated in certain sectors, its performance could be worse than the overall market.

**Merger and Replacement Transition Risk.** In the case of Fund mergers and replacements, the affected Funds that are being merged or replaced may implement the redemption of your interest by payment in cash or by distributing assets in kind. In either case, the redemption of your interest by the affected Fund, as well as the investment of the redemption proceeds by the "new" Fund, may result in transaction costs to the Funds because the affected Funds may find it necessary to sell securities and the "new" Funds will find it necessary to invest the redemption proceeds. Also, the redemption and reinvestment processes, including any transition period that may be involved in completing such mergers and replacements, could be subject to market gains or losses, including those from currency exchange rates. The transaction costs and potential market gains or losses could have an impact on the value of your investment in the affected Fund and in the "new" Fund, and such market gains or losses could also have an impact on the value of any existing investment that you or other investors may have in the "new" Fund. Although there can be no assurances that all risks can be eliminated, John Hancock will use its best efforts to manage and minimize such risks and costs.

Where the redemption of your interest is implemented through a distribution of assets in kind, the effective date of the merger or replacement may vary from the target date due to the transition period, commencing either before or after the date that is required to liquidate or transition the assets for investment in the "new" Fund.

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

### Risk Disclosures: Additional Risks

**Asset Backed Security Risk.** The fund may invest in asset-backed securities. Asset-backed securities include interests in pools of residential or commercial mortgages, debt securities, commercial or consumer loans, or other receivables. Often, the issuer of asset-backed securities is a special purpose entity and the investor's recourse is limited to the assets comprising the pool. The value of such securities depends on many factors, including, but not limited to, changes in interest rates, the structure of the pool and the priority of the securities within that structure, the credit quality of the underlying assets, the skill of the pool's servicer, the market's perception of the pool's servicer, and credit enhancement features (if any).

**Commodity Risk.** Commodity investments involve the risk of volatile market price fluctuations of commodities resulting from fluctuating demand, supply disruption, speculation and other factors.

**Convertible securities risk.** As convertible securities share both fixed income and equity characteristics, they are subject to risks to which fixed income and equity investments are subject. These risks include equity risk, interest rate risk and credit risk.

**Currency Risk.** Funds that invest directly in foreign currencies and in securities that trade in, or receive revenues in, foreign currencies, are subject to the risk that those currencies will decline in value relative to the currency being hedged.

**Derivatives/Hedging/Strategic Transactions Risk.** A fund's use of certain derivative instruments (such as options, futures and swaps) could produce disproportionate gains or losses in excess of the principal amount invested. Derivatives are generally considered more risky than investing directly in securities and, in a down market, could become harder to value or sell at a fair price. The use of derivatives for hedging and other strategic transactions may increase the volatility of a fund and, if the transaction is not successful, could result in a significant loss to a fund.

**Emerging Markets Risk.** The prices of securities issued by foreign companies and governments located in developing/emerging markets countries may be affected more negatively by inflation, devaluation of their currencies, higher transaction costs, delays in settlement, adverse political developments, the introduction of capital controls, withholding taxes, nationalization of private assets, expropriation, social unrest, war or lack of timely information than those in developed countries.

**Equity Securities Risk.** Stock markets are volatile, and the price of equity securities such as common and preferred stocks (and their equivalents) will fluctuate. The value of equity securities purchased by the fund could decline if the financial condition of the companies in which the fund invests decline or if overall market and economic conditions deteriorate.

**European Union risk.** Many countries in the European Union are susceptible to high economic risks associated with high levels of debt,



notably due to investments in sovereign debts of European countries such as Greece, Italy, Portugal and Spain. One or more member states might exit the European Union, placing its currency and banking system in jeopardy. The European Union faces major issues involving its membership, structure, procedures and policies, including the adoption, abandonment or adjustment of the new constitutional treaty, the European Union's enlargement to the south and east, and resolution of the European Union's problematic fiscal and democratic accountability. Efforts of the member states to further unify their economic and monetary policies may increase the potential for the downward movement of one member state's market to cause a similar effect on other member states' markets. European countries that are part of the European Economic and Monetary Union may be significantly affected by the tight fiscal and monetary controls that the union seeks to impose on its members.

**Exchange Traded Funds ("ETF"s) Risk.** Exchange Traded Funds are a type of investment company bought and sold on a securities exchange. An ETF often represents a fixed portfolio of securities designed to track a particular market index. The risks of owning an ETF generally reflect the risks of owning the underlying securities the ETF is designed to track.

**Exchange-traded note (ETN) risk.** ETNs are a type of unsecured, unsubordinated debt security that have characteristics and risks similar to those of fixed-income securities and trade on a major exchange similar to shares of ETFs. This type of debt security differs, however, from other types of bonds and notes because ETN returns are based upon the performance of a market index minus applicable fees, no period coupon payments are distributed, and no principal protections exist. The purpose of ETNs is to create a type of security that combines the aspects of both bonds and ETFs. The value of an ETN may be influenced by time to maturity, level of supply and demand for the ETN, volatility and lack of liquidity in underlying commodities or securities markets, changes in the applicable interest rates, changes in the issuer's credit rating and economic, legal, political or geographic events that affect the referenced commodity or security. The fund's decision to sell its ETN holdings also may be limited by the availability of a secondary market. If the fund must sell some or all of its ETN holdings and the secondary market is weak, it may have to sell such holdings at a discount. If the fund holds its investment in an ETN until maturity, the issuer will give the fund a cash amount that would be equal to principal amount (subject to the day's index factor). ETNs also are subject to counterparty credit risk and fixed income risk.

**Fixed-Income Securities Risk.** Fixed-income securities or bonds are subject to credit risk and interest rate risk. The credit rating of bonds in the fund could be downgraded or the issuer of a bond could default on its obligations. In general, lower-rated fixed-income securities involve more credit risk. When interest rates rise, bond prices generally fall.

**Foreign Securities Risk.** Foreign securities involve special risks, including potentially unfavorable currency exchange rates, limited government regulation (including less stringent investor protection and disclosure standards) and exposure to possible economic, political and social instability. To the extent the fund invests in emerging market countries, its foreign securities risk will be higher.

**Fund of Funds Risk.** A fund of funds invests in a number of underlying funds. A fund of fund's ability to achieve its investment objective will depend largely on the ability of its investment manager to select the appropriate mix of underlying funds and on the underlying funds ability to meet their investment objectives. A fund of funds is subject to the same risks as the underlying funds in which it invests. Each fund of funds bears its own expenses and indirectly bears its proportionate share of expenses of the underlying funds in which it invests.

**Growth Stock Risk.** Because growth securities typically make lower dividend payments or do not make dividend payments at all, investment returns are based on capital appreciation, making returns dependent on market increases and decreases. The market prices of growth stocks are highly sensitive to future earnings expectations. Growth stocks may therefore be more volatile than non-growth stocks.

**High Yield Securities Risk.** Fixed-income securities that are not investment grade are commonly referred to as high yield securities or "junk bonds". These securities offer a potentially higher yield than other, higher rated securities, but they carry a greater degree of risk and are considered speculative by the major credit rating agencies.

**Index Management Risk.** Certain factors may cause the fund to track its Index less closely. For example, the manager may select securities that are not fully representative of the Index, and the fund's transaction expenses, and the size and timing of its cash flows, may result in the fund's performance being different than that of its Index.

**Initial Public Offerings ("IPO") Risk.** The fund is subject to the risks associated with purchases of shares issued in IPOs by companies that have little operating history as public companies. The market for IPO issuers has been volatile and share prices of certain newly-public companies have fluctuated in significant amounts over short periods of time.

**Interest Rate Risk.** Fixed-income securities are affected by changes in interest rates. When interest rates decline, the market value of fixed-income securities generally will increase. Conversely, when interest rates rise, the market value of fixed-income securities will generally decrease. The longer the remaining maturity of instruments held by the fund, the more sensitive the fund is to interest rate risk.

**Investment Style/Value Stock Risk.** The fund's investments in value stocks carry the risk that the market will not recognize a security's intrinsic value for a long time or that a stock believed to be undervalued may actually be appropriately priced. Under certain market conditions, value stocks have performed better during periods of economic recovery. During times when value investing is out of favor, the Fund may underperform other equity funds that use different investment styles.

**Large Cap Risk.** The fund's strategy of investing in large cap stocks carries the risk that in certain markets large cap stocks will underperform small cap or mid cap stocks.

**Leverage Risk.** The fund may engage in transactions, including the use of synthetic instruments and derivatives, which may give rise to a form of leverage. Leverage may cause the fund to be more volatile than if the fund had not been leveraged because leverage can exaggerate the effect of any increase or decrease in the value of securities held by the fund.

**Lifecycle/Target Date Portfolio Risk.** A Target Date or Lifecycle Portfolio ("Fund") is a "fund of funds" which invests in a number of underlying funds. The Fund's ability to achieve its investment objective will depend largely on the ability of the subadviser to select the appropriate mix of underlying funds and on the underlying funds' ability to meet their investment objectives. There can be no assurance that either a Fund or the underlying funds will achieve their investment objectives. A Fund is subject to the same risks as the underlying funds in which it invests. Each Fund invests in underlying funds which invest in fixed-income securities (including in some cases high yield securities) and equity securities, including foreign securities and engage in Hedging and Other Strategic Transactions. To the extent the Fund invests in these securities directly or engages in Hedging and Other Strategic Transactions, the Fund will be subject to the same risks. As a Fund's asset mix becomes more conservative, the fund becomes more susceptible to risks

associated with fixed-income securities. For a more complete description of these risks, please review the underlying fund's prospectus, which is available upon request.

Each Target Date or Lifecycle Portfolio has an associated target date based on the expected year in which participants in the portfolio plan to retire and no longer make contributions. The investment strategy of these Portfolios are designed to become more conservative over time as the Portfolio approaches and passes the target retirement date. The principal value of an investment in these Portfolios is not guaranteed at any time, including at or after the target date. Primary benchmarks are required to be broad based in nature. Custom benchmarks that proportionally reflect the actual equity and fixed-income holdings of the Fund may provide a better measure of performance comparison and can be found on the fund fact sheet for each respective Fund on the website. Click on the link found below each respective Fund to access each Fund's fund fact sheet.

**Lifestyle Portfolio Risk.** A Lifestyle Portfolio ("Fund") is a "fund of funds" which invests in a number of underlying funds. The Fund's ability to achieve its investment objective will depend largely on the ability of the subadviser to select the appropriate mix of underlying funds and on the underlying funds' ability to meet their investment objectives. There can be no assurance that either a Fund or the underlying funds will achieve their investment objectives. A Fund is subject to the same risks as the underlying funds in which it invests, which include the following risks. Stocks can decline due to market, regulatory or economic developments. Investing in foreign securities is subject to certain risks not associated with domestic investing such as currency fluctuations and changes in political and economic conditions. The securities of small capitalization companies are subject to higher volatility than larger, more established companies. High Yield bonds are subject to additional risks such as the increased risk of default (not applicable to Lifestyle Aggressive Portfolio). For a more complete description of these risks, please review the underlying fund's prospectus, which is available upon request. Diversification does not ensure against loss. Primary benchmarks are selected based on the asset mix of each individual Fund. Primary benchmarks are required to be broad based in nature. Custom benchmarks that proportionally reflect the actual equity and fixed-income holdings of the Fund may provide a better measure of performance comparison and can be found on the fund fact sheet for each respective Fund on the website. Click on the link found below each respective Fund to access each Fund's fund fact sheet.

**Mid Cap Stock Risk.** Investments in mid-cap companies are subject to more erratic price movements than investments in larger, more established companies. In particular, mid-sized companies may pose greater risk due to narrow product lines, limited financial resources, less depth in management or a limited trading market for their securities.

**Mortgage-Backed and Asset-Backed Securities Risk.** When interest rates fall, homeowners are more likely to prepay their mortgage loans. An increased rate of prepayments on the fund's mortgage-backed securities will result in an unforeseen loss of interest income to the fund as the fund may be required to reinvest assets at a lower interest rate. Asset-backed securities include interests in pools of debt securities, commercial or consumer loans, or their receivables. The value of these securities depends on many factors, including changes in interest rates, the availability of information concerning the pool and its structure, the credit quality of the underlying assets, the market's perception of the servicer of the pool, and any credit enhancement provided. In addition, asset-backed securities have prepayment risks similar to mortgage-backed securities.

**Non-Diversification Risk.** A fund that is non-diversified may invest a high percentage of its assets in the securities of a small number of issuers. This approach may result in more volatile performance relative to more diversified

funds. The less diversified a fund's holdings are, the more a specific security's poor performance is likely to affect the fund's performance.

**Sector Risk.** When a fund's investments are concentrated in a particular industry or sector of the economy (e.g., real estate, technology, financial services), they are not as diversified as the investments of most mutual funds and are far less diversified than the broad securities markets. Funds concentrating in a particular industry sector tend to be more volatile than other mutual funds, and the values of their investments tend to go up and down more rapidly. A fund that invests in a particular industry or sector is particularly susceptible to the impact of market, economic, regulatory and other factors affecting that industry or sector.

**Short Sale Risk.** The fund may sell a security that it does not own. A fund will lose money if the price of the security which it has sold short increases between the time of the short sale and the date when the fund acquires the security sold short.

**Small Cap Stock Risk.** The fund's investments in smaller companies are subject to more erratic price movements than investments in larger, more established companies. Small cap companies may be developing or marketing new products or services for which markets are not yet and may never become established. Although small, unseasoned companies may offer greater opportunities for capital growth than larger, more established companies, they also involve greater risks and should be considered speculative.

**Small/Mid Cap Stock Risk.** The fund's investments in small-cap and mid-cap companies are subject to more erratic price movements than investments in larger, more established companies. In particular, mid-sized companies may pose greater risk due to narrow product lines, limited financial resources, less depth in management or a limited trading market for their securities. Similarly, small cap companies may be developing or marketing new products or services for which markets are not yet and may never become established. While small, unseasoned companies may offer greater opportunities for capital growth than larger, more established companies, they also involve greater risks and should be considered speculative.

**Target Allocation.** Target Allocation Risk is the risk that a fund could lose money as a result of less than optimal or poor asset allocation decisions. From time to time, one or more of the underlying funds may experience relatively large redemptions or investments due to reallocations or re-balancings of the assets of a portfolio, which could affect the performance of the underlying funds and, therefore, the performance of the portfolio.

**Target Date.** There is no guarantee that the subadviser will correctly predict the market or economic conditions and, as with other mutual fund investments, you could lose money even if the fund is at or close to its designated retirement year or in its post-retirement stage.

**Turnover Risk.** Active and frequent trading of fund securities results in a high fund turnover rate. Funds with high turnover rates often have higher transaction costs, which are paid by the fund, that may have an adverse impact on fund performance, and may generate short-term capital gains on which taxes may be imposed.

**U.S. Government Securities Risk.** U.S. government securities do not involve the degree of credit risk associated with investments in lower quality fixed-income securities. As a result, the yields available from U.S. government securities are generally lower than the yields available from many other fixed-income securities. These securities, like other fixed-income securities, are subject to interest rate risk.

## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	0.25%	1.86%	2.46%	0.71%
3 year	7.24%	1.83%	8.40%	6.42%
5 year	8.28%	3.35%	9.14%	7.42%
Since inception	4.42%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio*****	1.34%
Cost Per \$1,000	\$13.40

The inception date for the sub-account<sup>†</sup> is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is [Barclays Capital U.S. Aggregate Bond](#).<sup>15</sup>

The Index<sup>2</sup> is [31.5% Russell 3000/ 13.5% MSCI ACWI ex-US/ 44% BarCap Agg Bond/ 11% BofAML HY Master II](#).<sup>165</sup>

The peer group is [Target Date 2000-2010](#).<sup>165</sup>

Principal risks include: exchange traded funds, liquidity, Exchange-traded note (ETN) risk, sector, high yield securities, large cap, currency, Emerging Markets Risk, Risk of increase in expenses, equity securities, fixed-income securities, target allocation, derivatives, Merger and Replacement Transition Risk, initial public offerings, interest rate, market, Convertible securities risk, fund of funds, commodity, small/mid cap stock, manager, Lifecycle/Target Date Portfolio Risk, non-diversification, foreign securities, target date, mortgage-backed and asset-backed securities, credit and counterparty and issuer. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2010 - Active Strategies

13,46,57,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2010 (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLAOX

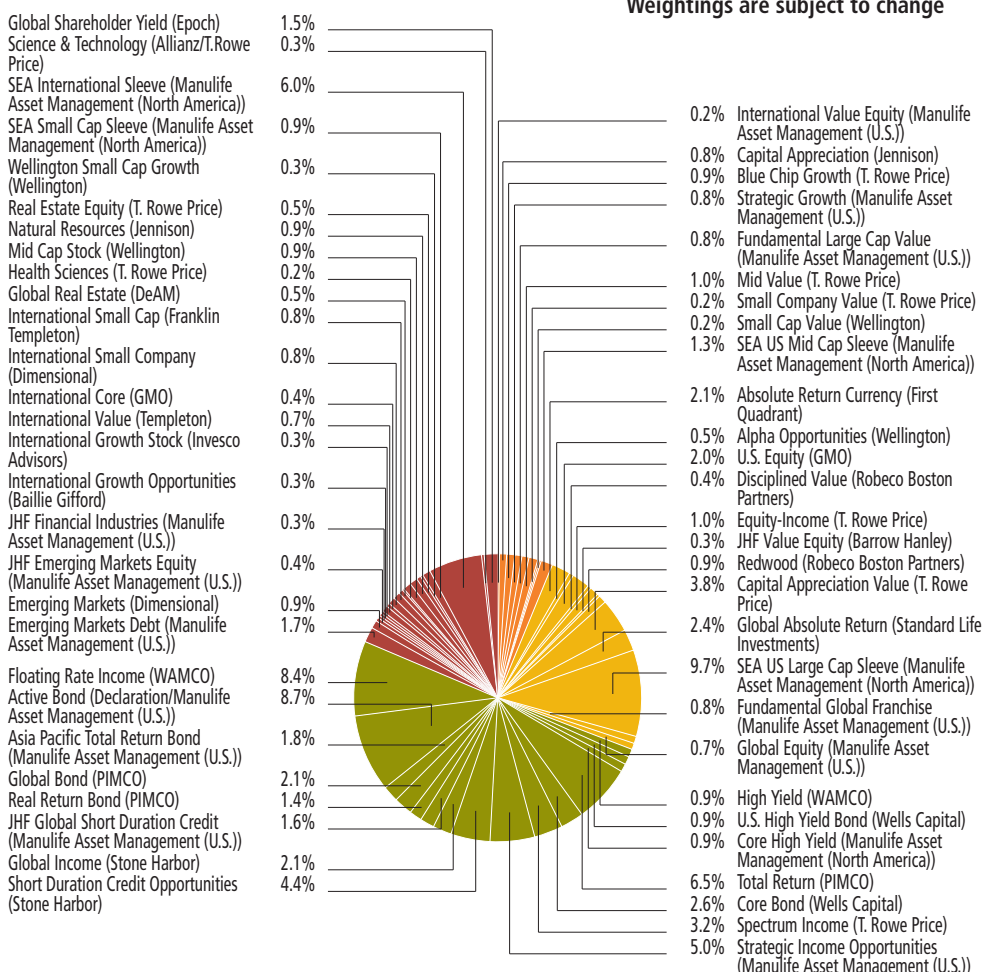
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

### Weightings\*



### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ **Beta:** 0.85 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 97.01 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>5</sup>:** 23.00
- ▶ **Net Assets:** \$341.8 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.91%
  - Net\* 0.64%

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



## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	0.62%	7.42%	2.66%	0.95%
3 year	8.34%	17.31%	9.54%	7.33%
5 year	9.15%	17.34%	10.07%	8.14%
Since inception	4.47%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.34%
Cost Per \$1,000	\$13.40

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 37.80% Russell 3000/ 16.20% MSCI ACWI ex-US/ 36.80% BarCap Agg Bond/ 9.20% BofAML HY Master II.<sup>164</sup>

The peer group is Target Date 2011-2015.<sup>166</sup>

Principal risks include: Risk of increase in expenses, credit and counterparty, fund of funds, large cap, sector, issuer, currency, exchange traded funds, initial public offerings, target date, commodity, Convertible securities risk, Lifecycle/Target Date Portfolio Risk, Emerging Markets Risk, liquidity, non-diversification, equity securities, interest rate, mortgage-backed and asset-backed securities, derivatives, Exchange-traded note (ETN) risk, small/mid cap stock, foreign securities, fixed-income securities, high yield securities, market, Merger and Replacement Transition Risk, manager and target allocation. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2015 - Active Strategies

13,46,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2015 (Class I)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLBOX

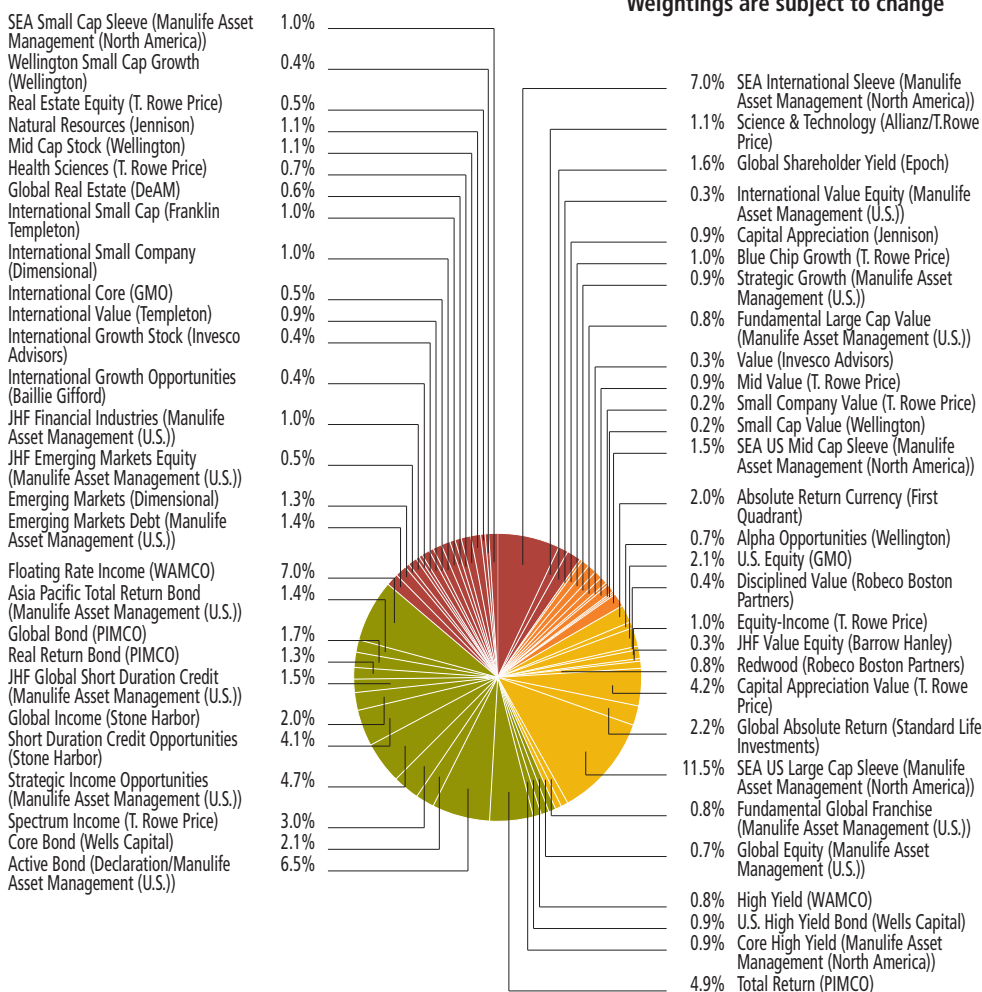
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.
- ▶ You want an actively managed asset allocation portfolio investing in actively managed underlying funds

### Weightings\*



### Key Statistics (as of 6-30-15 unless noted)<sup>5</sup>α

- ▶ **Beta:** 0.95 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 98.38 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>5</sup>:** 20.00
- ▶ **Net Assets:** \$600.5 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.90%
  - Net\* 0.66%

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

## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	1.11%	7.42%	2.90%	1.20%
3 year	9.65%	17.31%	10.93%	7.79%
5 year	10.20%	17.34%	11.21%	8.69%
Since inception	4.63%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.34%
Cost Per \$1,000	\$13.40

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 45.50% Russell 3000/ 19.50% MSCI ACWI ex-US/ 28% BarCap Agg Bond/ 7% BofAML HY Master II.<sup>163</sup>

The peer group is Target Date 2016-2020.<sup>167</sup>

Principal risks include: exchange traded funds, commodity, equity securities, small/mid cap stock, market, manager, sector, target allocation, interest rate, issuer, mortgage-backed and asset-backed securities, Lifecycle/Target Date Portfolio Risk, credit and counterparty, fixed-income securities, initial public offerings, foreign securities, non-diversification, currency, Emerging Markets Risk, Exchange-traded note (ETN) risk, Merger and Replacement Transition Risk, fund of funds, large cap, target date, high yield securities, liquidity, Convertible securities risk, derivatives and Risk of increase in expenses. For more details, see Risk Disclosures section of this booklet



## JH Retirement Through 2020 - Active Strategies

13,46,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2020 (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLDX

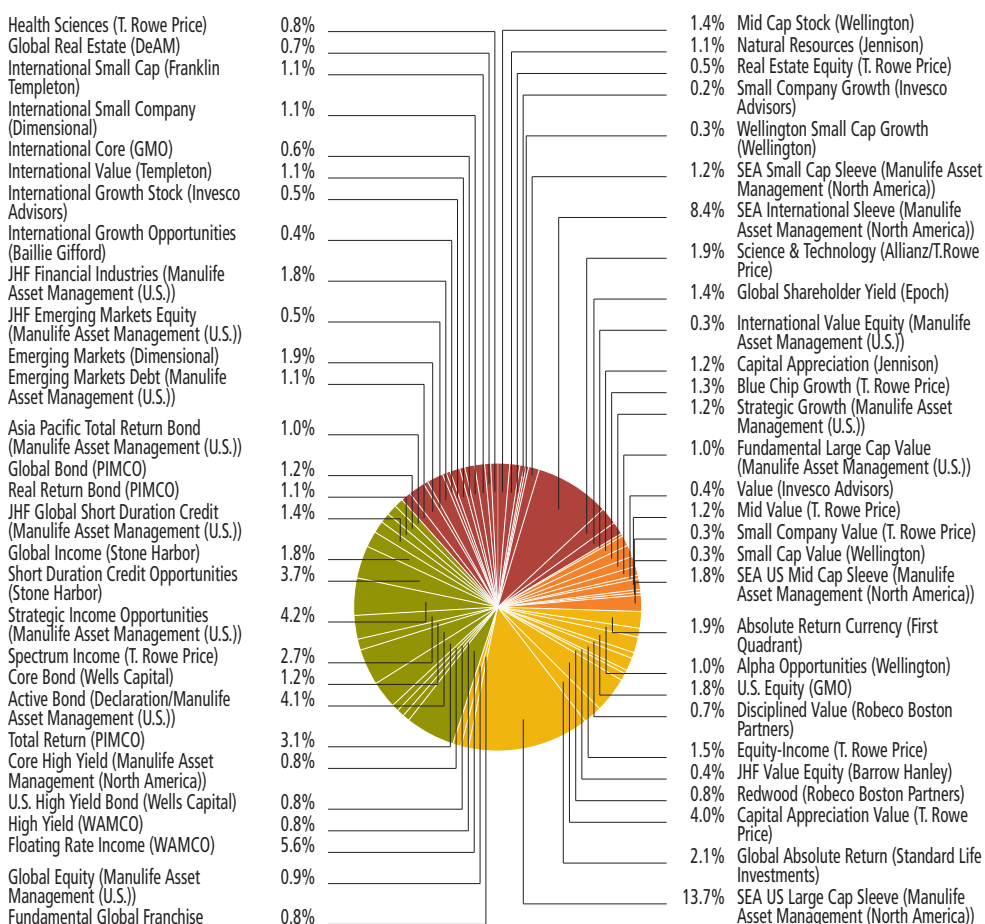
### Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted)<sup>a</sup>

- ▶ **Beta:** 1.08 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 98.14 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>s</sup>:** 17.00
- ▶ **Net Assets:** \$1.2 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.90%
  - Net\* 0.68%

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





## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	1.98%	7.42%	3.32%	1.77%
3 year	12.04%	17.31%	13.61%	10.13%
5 year	11.95%	17.34%	13.34%	10.54%
Since inception	4.82%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.35%
Cost Per \$1,000	\$13.50

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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

The Index<sup>1</sup> is **S&P 500**.<sup>158</sup>

The Index<sup>2</sup> is **60.20% Russell 3000/ 25.80% MSCI ACWI ex-US/ 11.20% BarCap Agg Bond/ 2.80% BofAML HY Master II**.<sup>161</sup>

The peer group is **Target Date 2026-2030**.<sup>169</sup>

Principal risks include: equity securities, Exchange-traded note (ETN) risk, commodity, mortgage-backed and asset-backed securities, market, large cap, derivatives, Convertible securities risk, manager, issuer, currency, Emerging Markets Risk, initial public offerings, Risk of increase in expenses, Lifecycle/Target Date Portfolio Risk, non-diversification, high yield securities, interest rate, liquidity, credit and counterparty, small/mid cap stock, foreign securities, exchange traded funds, fund of funds, Merger and Replacement Transition Risk, sector, target allocation, target date and fixed-income securities. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2030 - Active Strategies

13,46,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2030 (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: **JLFOX**

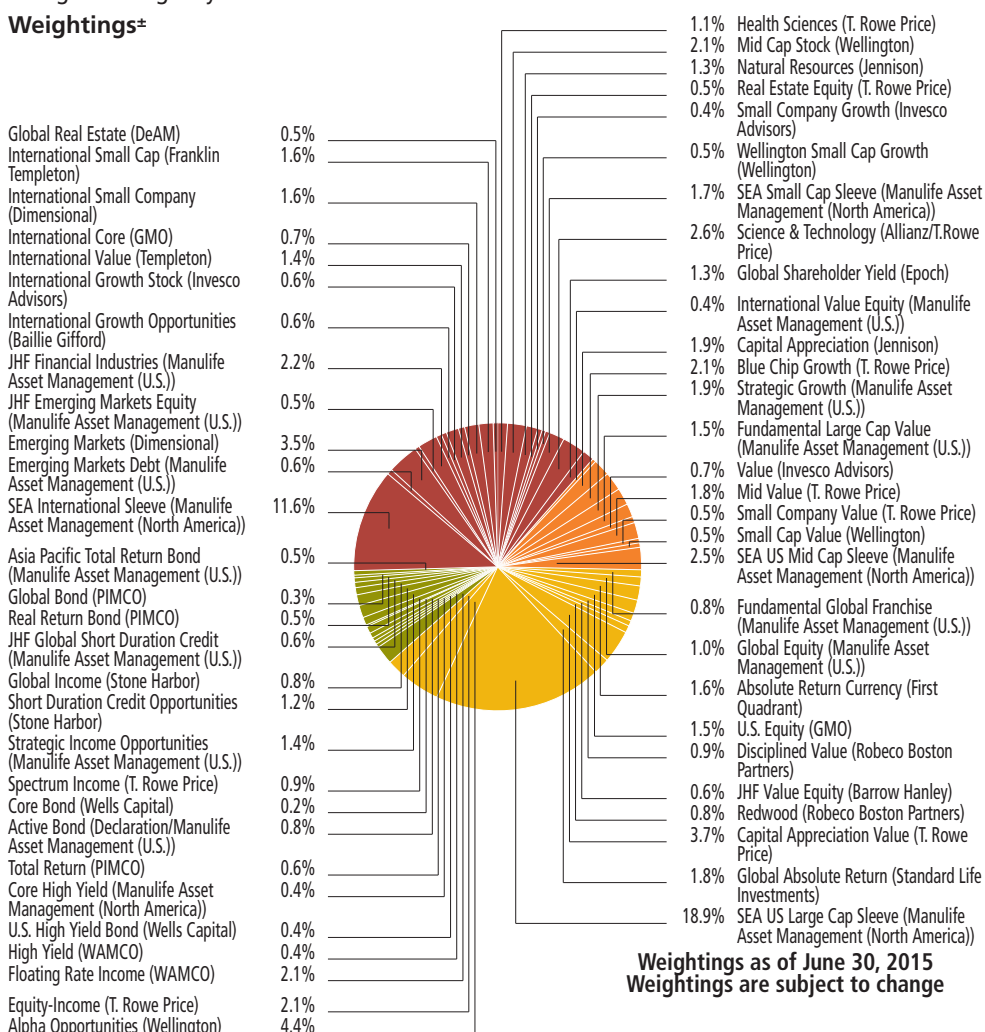
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

### Weightings\*



**Weightings as of June 30, 2015**  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted)<sup>a</sup>

- ▶ **Beta:** 1.33 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 96.06 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>b</sup>:** 15.00
- ▶ **Net Assets:** \$1.3 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.91%
  - Net\* 0.71%

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

## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.09%	7.42%	3.46%	2.19%
3 year	12.67%	17.31%	14.50%	11.62%
5 year	12.37%	17.34%	14.04%	12.00%
Since inception	5.05%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.35%
Cost Per \$1,000	\$13.50

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 65.10% Russell 3000/ 27.90% MSCI ACWI ex-US/ 5.60% BarCap Agg Bond/ 1.40% BofAML HY Master II.<sup>172</sup>

The peer group is Target Date 2031-2035.<sup>140</sup>

Principal risks include: market, high yield securities, currency, target date, initial public offerings, exchange traded funds, Lifecycle/Target Date Portfolio Risk, Emerging Markets Risk, Convertible securities risk, foreign securities, manager, small/mid cap stock, Risk of increase in expenses, mortgage-backed and asset-backed securities, credit and counterparty, liquidity, target allocation, fixed-income securities, commodity, derivatives, issuer, Merger and Replacement Transition Risk, Exchange-traded note (ETN) risk, equity securities, interest rate, sector, non-diversification, fund of funds and large cap. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2035 - Active Strategies

13,46,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2035 (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLHOX

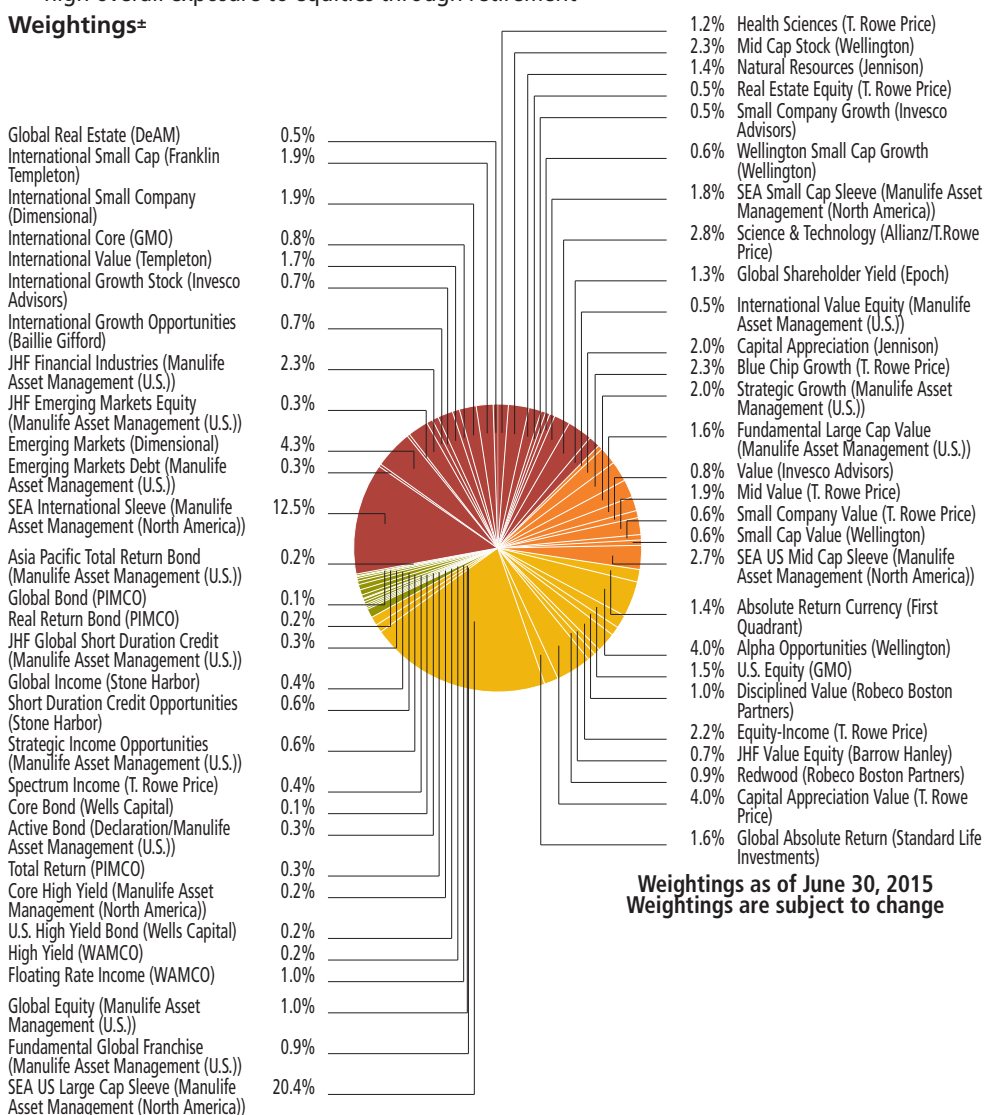
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation strategy to maintain high overall exposure to equities through retirement

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ **Beta:** 1.40 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 95.50 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>5</sup>:** 14.00
- ▶ **Net Assets:** \$1.1 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.91%
  - Net\* 0.71%

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



## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.18%	7.42%	3.50%	2.16%
3 year	12.78%	17.31%	14.76%	11.60%
5 year	12.45%	17.34%	14.24%	11.62%
Since inception	5.09%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio*****	1.35%
Cost Per \$1,000	\$13.50

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 66.5% Russell 3000/ 28.5% MSCI ACWI ex-US/ 4% BarCap Agg Bond/ 1% BofAML HY Master II.<sup>160</sup>

The peer group is Target Date 2036-2040.<sup>161</sup>

Principal risks include: interest rate, fixed-income securities, sector, high yield securities, target date, issuer, small/mid cap stock, credit and counterparty, Risk of increase in expenses, manager, currency, foreign securities, fund of funds, equity securities, Convertible securities risk, liquidity, Lifecycle/Target Date Portfolio Risk, commodity, mortgage-backed and asset-backed securities, Emerging Markets Risk, initial public offerings, large cap, non-diversification, market, exchange traded funds, derivatives, target allocation and Merger and Replacement Transition Risk. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2040 - Active Strategies

13,46,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2040 (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLIOX

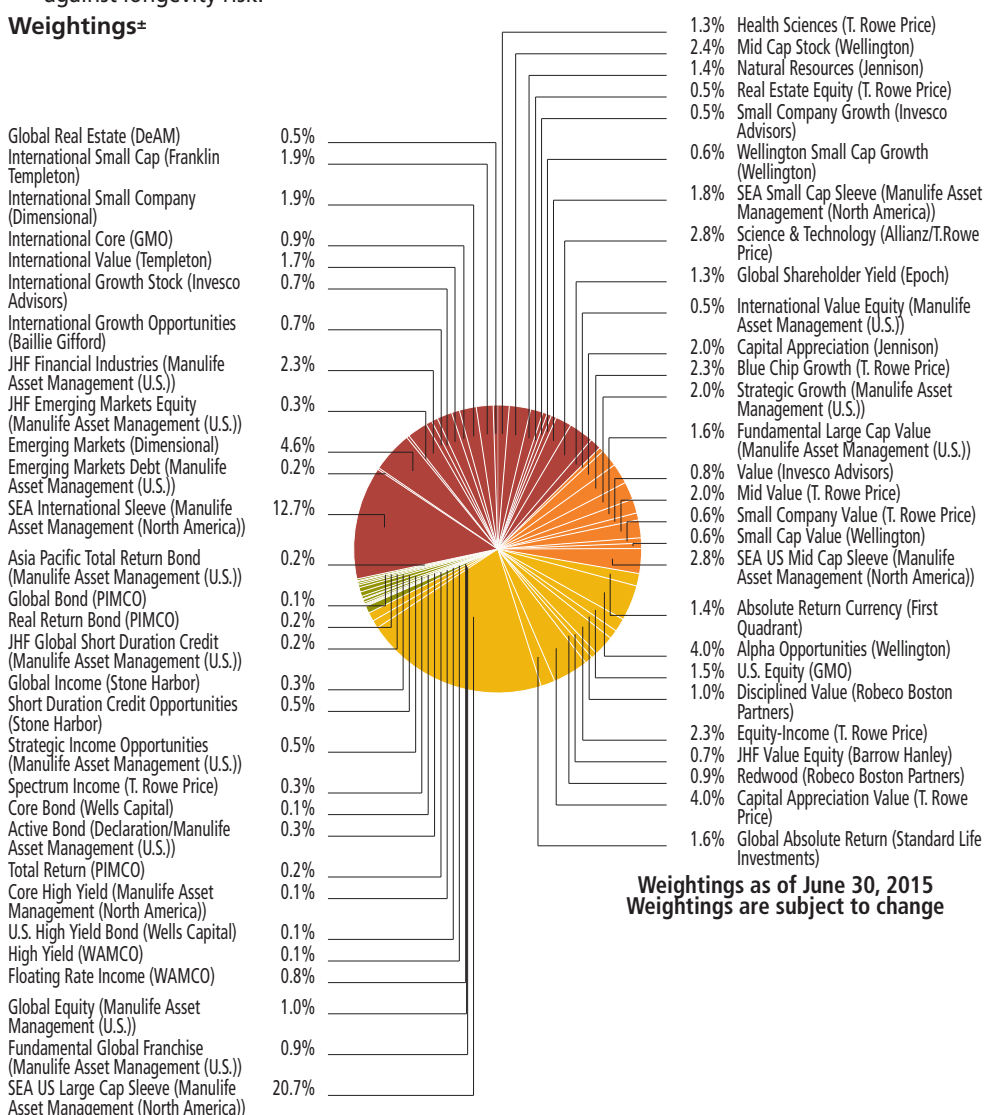
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>§</sup>)

- ▶ **Beta:** 1.40 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 95.30 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>§</sup>:** 14.00
- ▶ **Net Assets:** \$861.4 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.91%
  - Net\* 0.71%

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

## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.13%	7.42%	3.50%	2.43%
3 year	12.76%	17.31%	14.76%	12.53%
5 year	12.41%	17.34%	14.24%	12.66%
Since inception	5.07%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.36%
Cost Per \$1,000	\$13.60

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is October 31, 2006.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 66.5% Russell 3000/ 28.5% MSCI ACWI ex-US/ 4% BarCap Agg Bond/ 1% BofAML HY Master II.<sup>160</sup>

The peer group is Target Date 2041-2045.<sup>142</sup>

Principal risks include: exchange traded funds, mortgage-backed and asset-backed securities, fixed-income securities, Risk of increase in expenses, market, equity securities, non-diversification, target date, manager, initial public offerings, Emerging Markets Risk, foreign securities, sector, Merger and Replacement Transition Risk, fund of funds, commodity, target allocation, derivatives, large cap, Convertible securities risk, Exchange-traded note (ETN) risk, issuer, liquidity, currency, credit and counterparty, Lifecycle/Target Date Portfolio Risk, small/mid cap stock and high yield securities. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2045 - Active Strategies

13,46,101,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2045 (Class I)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLJOX

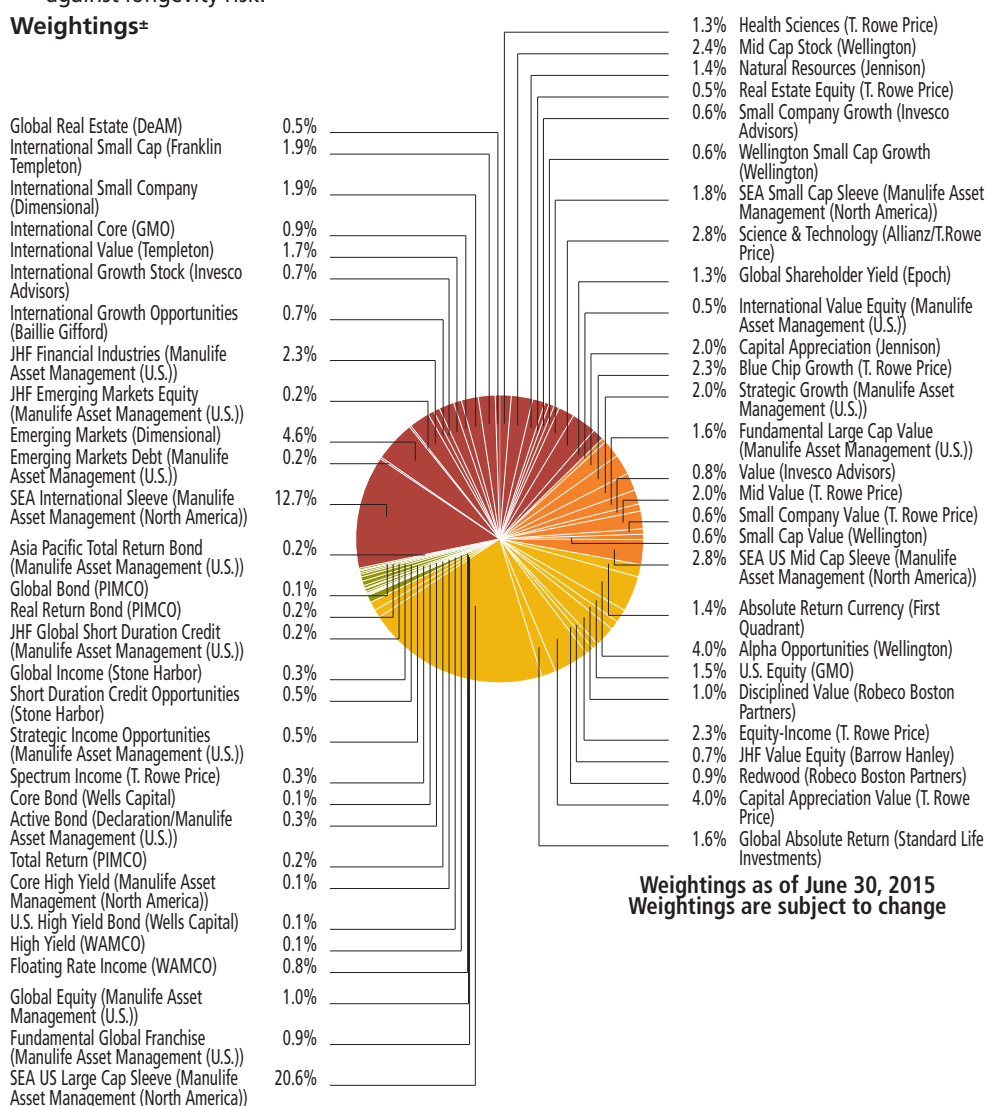
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ **Beta:** 1.41 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 95.52 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>5</sup>:** 14.00
- ▶ **Net Assets:** \$819.8 million
- ▶ **Underlying fund expense ratios:**
  - Gross<sup>6</sup> 0.92%
  - Net<sup>7</sup> 0.72%

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



## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.15%	7.42%	3.50%	2.33%
3 year	12.81%	17.31%	14.76%	12.13%
Since inception	7.32%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.36%
Cost Per \$1,000	\$13.60

The inception date for the sub-account\* is May 6, 2011 and for the current underlying Portfolio is April 29, 2011.

\*See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 66.5% Russell 3000/ 28.5% MSCI ACWI ex-US/ 4% BarCap Agg Bond/ 1% BofAML HY Master II.<sup>160</sup>

The peer group is Target Date 2046-2050.<sup>163</sup>

Principal risks include: mortgage-backed and asset-backed securities, equity securities, high yield securities, target date, commodity, non-diversification, target allocation, Emerging Markets Risk, initial public offerings, derivatives, market, interest rate, currency, liquidity, sector, Merger and Replacement Transition Risk, foreign securities, credit and counterparty, fund of funds, issuer, Lifecycle/Target Date Portfolio Risk, manager, fixed-income securities, Convertible securities risk, Risk of increase in expenses, exchange traded funds, small/mid cap stock, Exchange-traded note (ETN) risk and large cap. For more details, see Risk Disclosures section of this booklet



# JH Retirement Through 2050 - Active Strategies

13,111,114,125

Investing solely in John Hancock Funds II - Retirement Living through 2050 (Class I)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLKOX

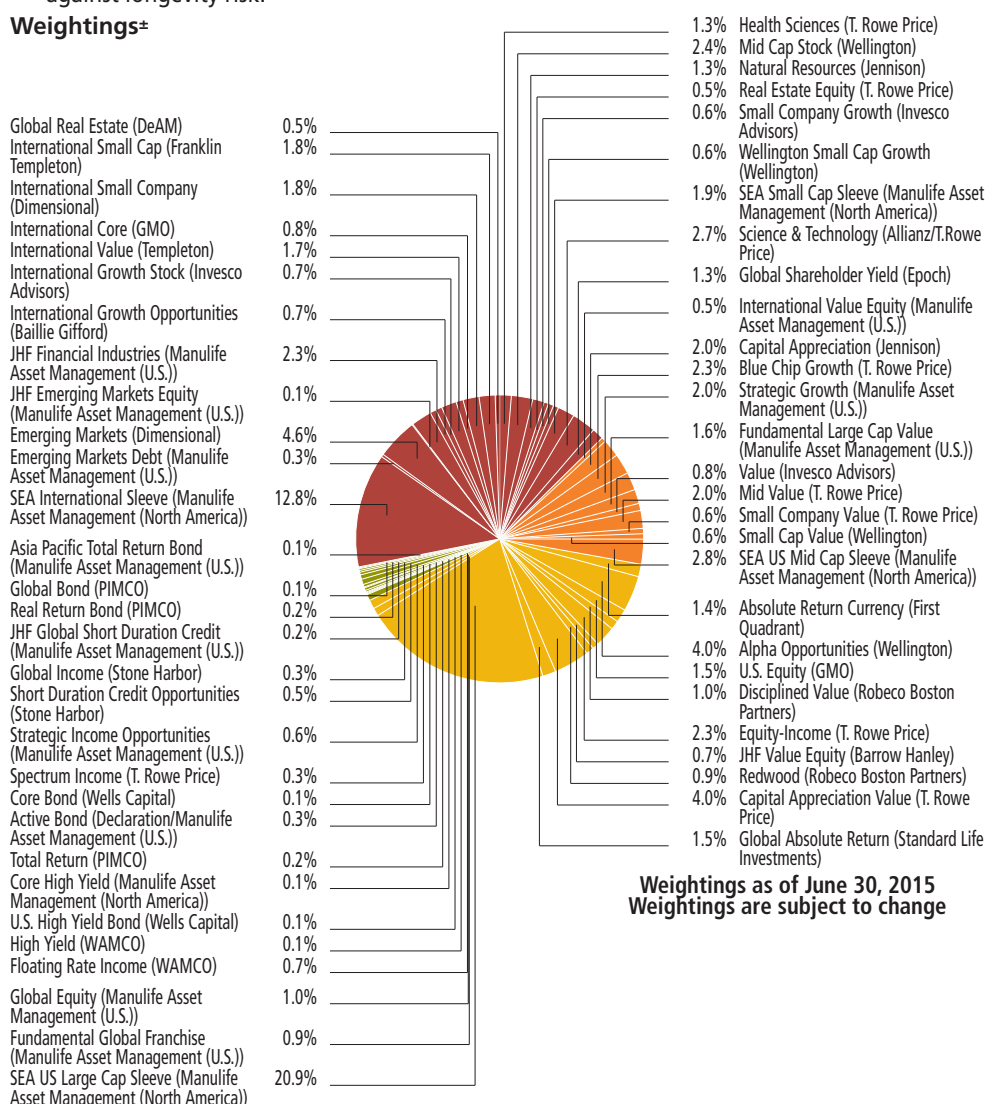
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ **Beta:** 1.40 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 95.05 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>5</sup>:** 10.00
- ▶ **Net Assets:** \$289.4 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.99%
  - Net\* 0.72%

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

## Sub-Account Details

### Asset Class/Investment Style

Target Date

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.12%	7.42%	3.50%	2.59%
Since Inception	5.96%	n/a	n/a	n/a

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.37%
Cost Per \$1,000	\$13.70

The inception date for the sub-account\* is May 2, 2014 and for the current underlying Portfolio is March 26, 2014.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index<sup>1</sup> is S&P 500.<sup>58</sup>

The Index<sup>2</sup> is 66.5% Russell 3000/ 28.5% MSCI ACWI ex-US/ 4% BarCap Agg Bond/ 1% BofAML HY Master II.<sup>60</sup>

The peer group is Target Date 2051+.<sup>63</sup>

Principal risks include: Exchange-traded note (ETN) risk, equity securities, exchange traded funds, interest rate, credit and counterparty, issuer, high yield securities, currency, initial public offerings, commodity, Risk of increase in expenses, non-diversification, Convertible securities risk, short sale, mortgage-backed and asset-backed securities, liquidity, U.S. government securities, small/mid cap stock, foreign securities, target date, manager, fund of funds, sector, large cap, derivatives, fixed-income securities, Lifecycle/Target Date Portfolio Risk, target allocation, Merger and Replacement Transition Risk and market. For more details, see Risk Disclosures section of this booklet



## JH Retirement Through 2055 - Active Strategies<sup>13,114</sup>

Investing solely in John Hancock Funds II - Retirement Living through 2055 (Class I)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JLKUX

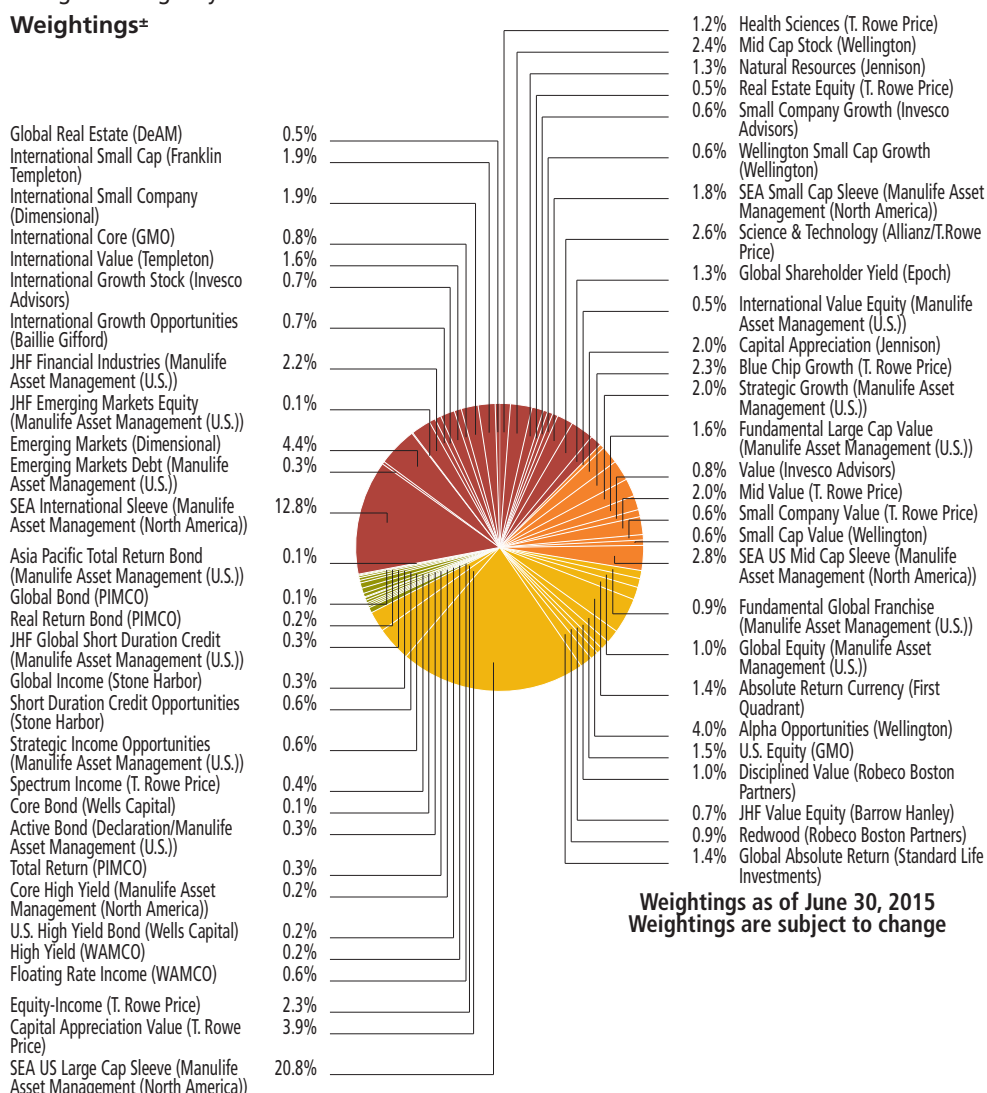
### Fund Highlights

**Investment Objective and Policies** ▶ Seeks high total return through its' target retirement date, with a greater focus on income beyond the target date.

#### Why Consider this Fund

- ▶ You want the opportunity to remain in the same portfolio after the target date is reached
- ▶ You want one-step diversification with exposure to domestic stocks, international stocks and fixed-income securities
- ▶ You've considered your risk tolerance and want your asset allocation to become more conservative over time, but still provide growth after your retirement date to protect against longevity risk.

#### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

#### Key Statistics (as of 6-30-15 unless noted)<sup>6</sup>


- ▶ **Beta:** 1.42 (Morningstar Moderate Target Risk)
- ▶ **R<sup>2</sup>:** 97.23 (Morningstar Moderate Target Risk)
- ▶ **Turnover (annualized)<sup>5</sup>:** 24.00
- ▶ **Net Assets:** \$40.4 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 3.48%
  - Net\* 0.73%

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Conservative

Low  High

### Asset Class/Investment Style

Lifestyle

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	-0.43%	1.86%	1.89%	-0.20%
3 year	4.48%	1.83%	5.28%	5.88%
5 year	5.81%	3.35%	6.50%	7.00%
10 year	4.78%	4.44%	5.84%	4.78%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.36%
Cost Per \$1,000	\$13.60

The inception date for the sub-account<sup>1</sup> is October 2, 1997 and for the current underlying Portfolio is October 14, 2005.

¶See important notes.

\*\*The performance data presented represents past performance. Past performance is no guarantee of future results and current performance may be lower or higher than the performance quoted. An investment in a sub-account will fluctuate in value to reflect the value of the underlying portfolio and, when redeemed, may be worth more or less than original cost. Performance does not reflect any applicable contract-level or participant-level charges, fees for guaranteed benefits if elected by participant, or any redemption fees imposed by an underlying fund company. These charges, if included, would otherwise reduce the total return for a participant's account. Performance information current to the most recent month-end is available on our website [www.jhpnensions.com](http://www.jhpnensions.com).

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FFR).

Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the sub-account charge that was in effect prior to October 14, 2005, which was 0.20% higher than the current sub-account charge.

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

The Index<sup>1</sup> is Barclays Capital U.S. Aggregate Bond.<sup>15</sup>

The Index<sup>2</sup> is 14% Russell 3000/ 6% MSCI ACWI ex-US/ 64% BarCap Agg Bond/ 16% BotAML HY Master II.<sup>151</sup>

The peer group is Conservative Allocation.<sup>2</sup>

Principal risks include: foreign securities, currency, exchange traded funds, small/mid cap stock, Exchange-traded note (ETN) risk, credit and counterparty, manager, sector, derivatives, Merger and Replacement Transition Risk, high yield securities, Emerging Markets Risk, market, fixed-income securities, issuer, equity securities, Risk of increase in expenses, target allocation, short sale, large cap, liquidity, initial public offerings, mortgage-backed and asset-backed securities, fund of funds, non-diversification, Convertible securities risk, Lifestyle Portfolio Risk, Lifestyle Portfolio Risk and commodity. For more details, see Risk Disclosures section of this booklet.



# JH Lifestyle Conservative - Active Strategies<sup>13,68,101,125</sup>

Investing solely in John Hancock Funds II - Lifestyle Conservative Portfolio (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JILCX

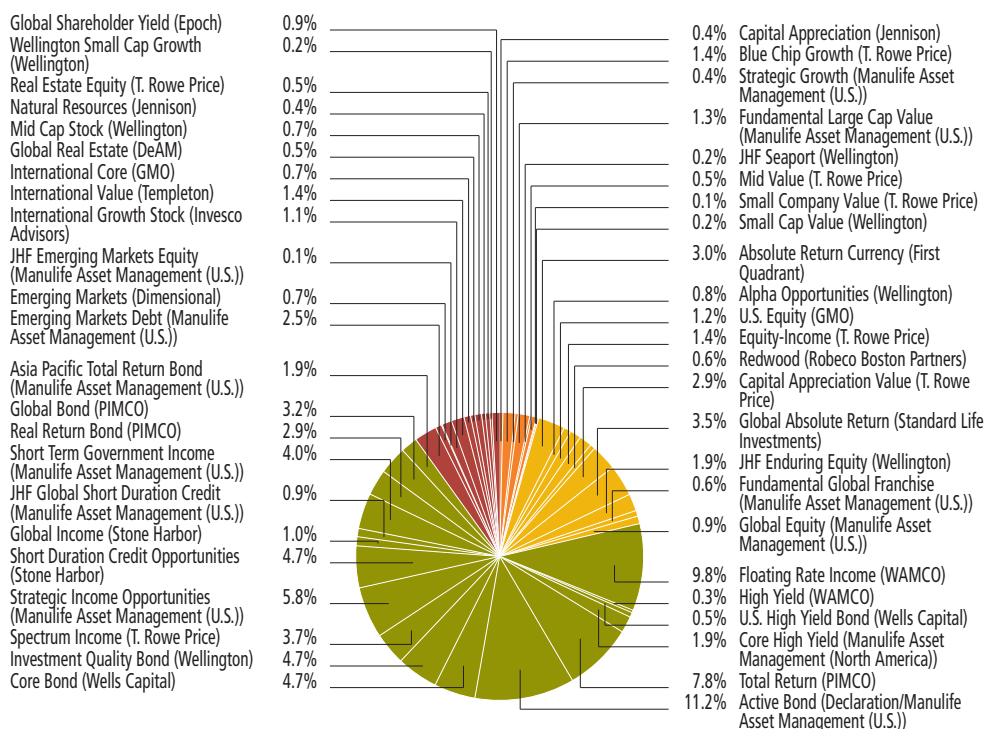
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve a high level of current income with some consideration given to growth of capital by investing approximately 80% of the portfolio's assets in underlying portfolios that invest primarily in fixed-income securities and 20% of its assets in underlying portfolios that invest primarily in equity securities.

### Why Consider this Fund

- ▶ You have a short- to medium-term investment horizon and seek a high level of current income with the potential for some growth of capital
- ▶ You want instant and broad diversification with exposure to a wide range of asset classes and investment styles, including domestic and international stocks

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ Beta: 0.64 (Barclays US Agg Bond TR USD)
- ▶ R<sup>2</sup>: 32.73 (Barclays US Agg Bond TR USD)
- ▶ Turnover (annualized)<sup>5</sup>: 22.00
- ▶ Net Assets: \$3.5 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 0.91%
  - Net\* 0.91%

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Income

Low  High

### Asset Class/Investment Style

Lifestyle

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	0.28%	1.86%	2.35%	-0.20%
3 year	6.96%	1.83%	7.78%	5.88%
5 year	7.87%	3.35%	8.61%	7.00%
10 year	5.31%	4.44%	6.42%	4.78%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.38%
Cost Per \$1,000	\$13.80

The inception date for the sub-account<sup>1</sup> is October 2, 1997 and for the current underlying Portfolio is October 14, 2005.

\*See important notes.

\*\*The performance data presented represents past performance. Past performance is no guarantee of future results and current performance may be lower or higher than the performance quoted. An investment in a sub-account will fluctuate in value to reflect the value of the underlying portfolio and, when redeemed, may be worth more or less than original cost. Performance does not reflect any applicable contract-level or participant-level charges, fees for guaranteed benefits if elected by participant, or any redemption fees imposed by an underlying fund company. These charges, if included, would otherwise reduce the total return for a participant's account. Performance information current to the most recent month-end is available on our website [www.jhpnensions.com](http://www.jhpnensions.com).

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the sub-account charge that was in effect prior to October 14, 2005, which was 0.20% higher than the current sub-account charge.

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

The Index<sup>1</sup> is Barclays Capital U.S. Aggregate Bond.<sup>15</sup>

The Index<sup>2</sup> is 28% Russell 3000/ 12% MSCI ACWI ex-US/ 48% BarCap Agg Bond/ 12% BotAML HY Master II.<sup>16</sup>

The peer group is Conservative Allocation.<sup>17</sup>

Principal risks include: derivatives, mortgage-backed and asset-backed securities, currency, fixed-income securities, Merger and Replacement Transition Risk, large cap, Exchange-traded note (ETN) risk, short sale, market, high yield securities, fund of funds, manager, Lifestyle Portfolio Risk, Emerging Markets Risk, initial public offerings, Convertible securities risk, issuer, small/mid cap stock, credit and counterparty, non-diversification, liquidity, exchange traded funds, Lifestyle Portfolio Risk, Risk of increase in expenses, sector, commodity, target allocation, equity securities and foreign securities. For more details, see Risk Disclosures section of this booklet.



## JH Lifestyle Moderate - Active Strategies<sup>13,31,68,101,125</sup>

Investing solely in John Hancock Funds II - Lifestyle Moderate Portfolio (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JILMX

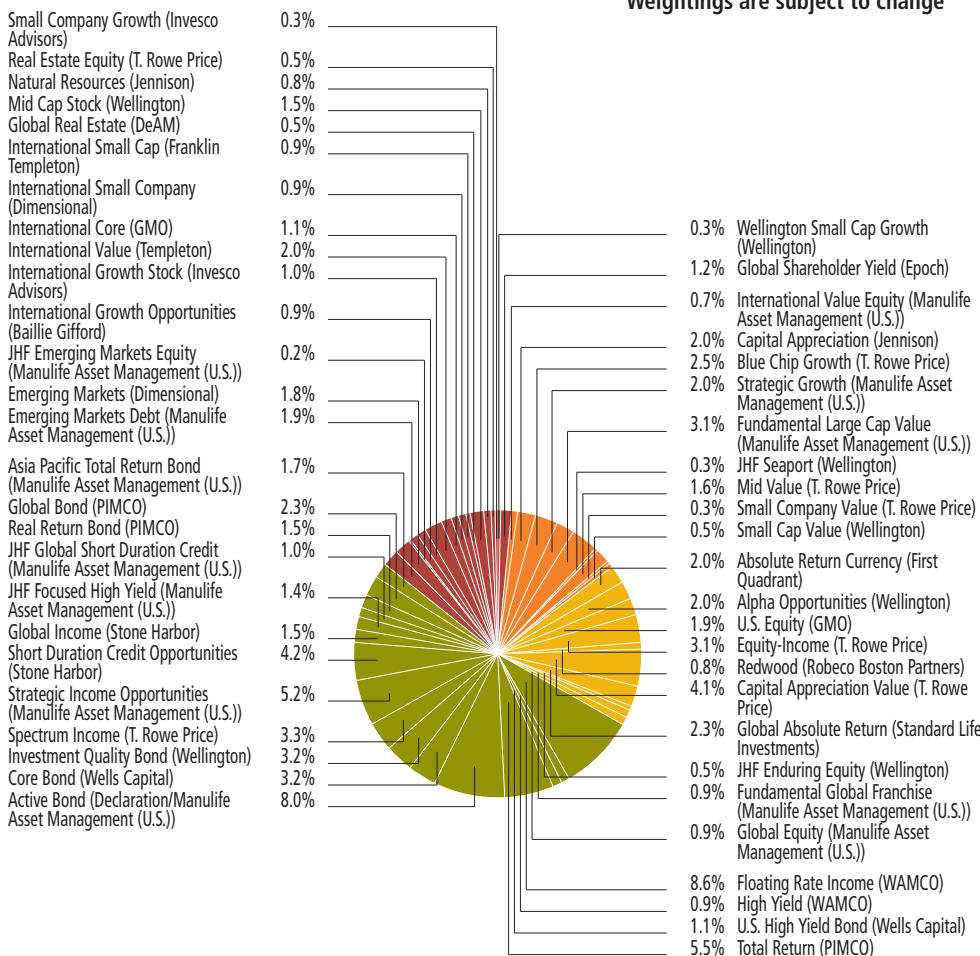
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve a balance between a high level of current income and growth of capital, with a greater emphasis on income by investing approximately 60% of the portfolio's assets in underlying portfolios that invest primarily in fixed-income securities and 40% of its assets in portfolios that invest primarily in equity securities.

### Why Consider this Fund

- ▶ You have a medium- to long-term investment horizon and seek a balance between a high level of current income and growth of capital with a greater emphasis on income. You can accept levels of risk greater than bonds, but less than that of equity markets
- ▶ You want instant and broad diversification with exposure to a wide range of asset classes and investment styles, including domestic and international stocks

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5A</sup>)

- ▶ **Beta:** 0.50 (Barclays US Agg Bond TR USD)
- ▶ **R<sup>2</sup>:** 10.90 (Barclays US Agg Bond TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 14.00
- ▶ **Net Assets:** \$4.6 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.93%
  - Net\* 0.93%

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### Lifestyle

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	1.40%	7.42%	2.79%	2.06%
3 year	9.53%	17.31%	10.30%	10.08%
5 year	9.65%	17.34%	10.69%	10.38%
10 year	5.73%	7.89%	6.90%	5.98%

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.42%
Cost Per \$1,000	\$14.20

The inception date for the sub-account<sup>1</sup> is October 2, 1997 and for the current underlying Portfolio is October 14, 2005.

¶See important notes.

\*\*The performance data presented represents past performance. Past performance is no guarantee of future results and current performance may be lower or higher than the performance quoted. An investment in a sub-account will fluctuate in value to reflect the value of the underlying portfolio and, when redeemed, may be worth more or less than original cost. Performance does not reflect any applicable contract-level or participant-level charges, fees for guaranteed benefits if elected by participant, or any redemption fees imposed by an underlying fund company. These charges, if included, would otherwise reduce the total return for a participant's account. Performance information current to the most recent month-end is available on our website [www.jhpnensions.com](http://www.jhpnensions.com).

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the sub-account charge that was in effect prior to October 14, 2005, which was 0.20% higher than the current sub-account charge.

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

The Index<sup>1</sup> is S&P 500<sup>188</sup>

The Index<sup>2</sup> is 42% Russell 3000/ 18% MSCI ACWI ex-US/ 32% BarCap Agg Bond/ 8% BofAML HY Master II.<sup>189</sup>

The peer group is Moderate Allocation.<sup>200</sup>

Principal risks include: small/mid cap stock, market, Merger and Replacement Transition Risk, Exchange-traded note (ETN) risk, equity securities, high yield securities, Emerging Markets Risk, short sale, sector, Risk of increase in expenses, fund of funds, fixed-income securities, foreign securities, Lifestyle Portfolio Risk, credit and counterparty, mortgage-backed and asset-backed securities, commodity, Convertible securities risk, interest rate, liquidity, derivatives, exchange traded funds, large cap, issuer, initial public offerings, non-diversification, manager, currency, Lifestyle Portfolio Risk and target allocation. For more details, see Risk Disclosures section of this booklet



## JH Lifestyle Balanced - Active Strategies

9,13,68,101,123,125

Investing solely in John Hancock Funds II - Lifestyle Balanced Portfolio (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JILBX

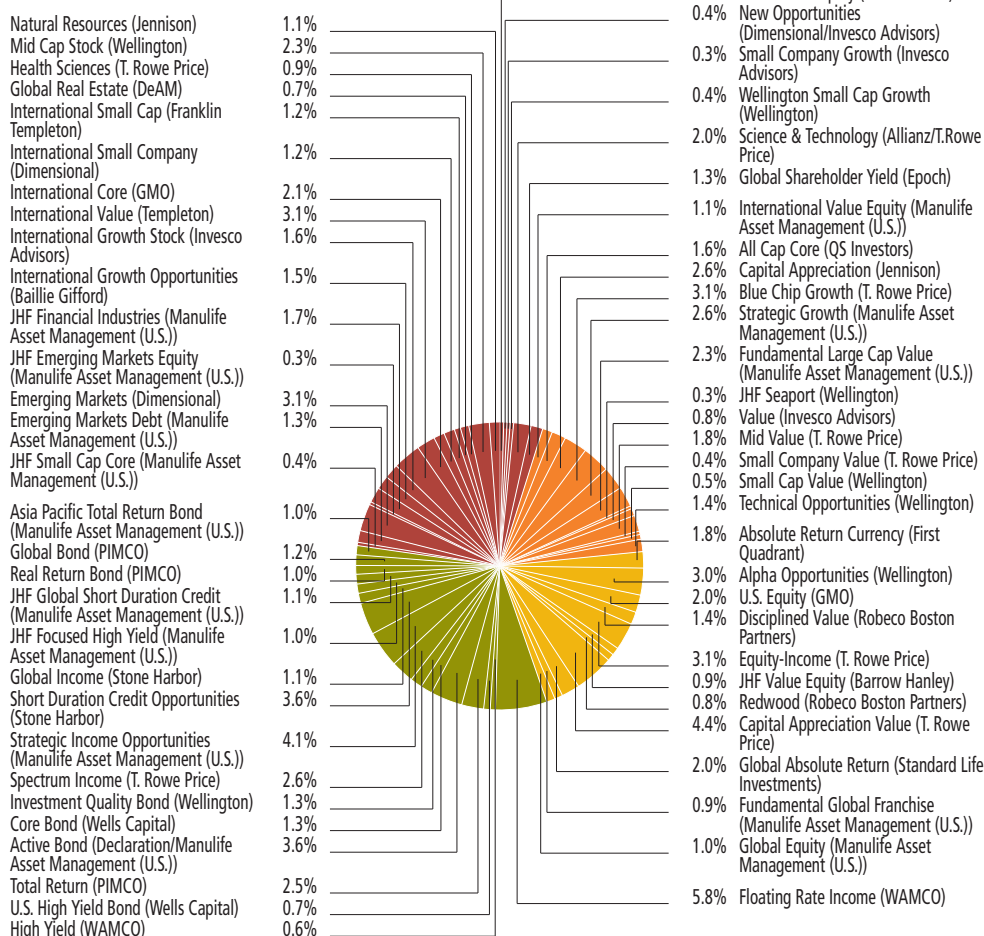
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve a balance between a high level of current income and growth of capital, with a greater emphasis on growth of capital, by investing approximately 40% of the portfolio's assets in underlying portfolios that invest primarily in fixed-income securities and approximately 60% of its assets in underlying portfolios that invest primarily in equity securities.

### Why Consider this Fund

- ▶ You have a long-term investment horizon and seek a balance between a high level of current income and growth of capital with greater emphasis on growth of capital. You can accept levels of risk similar that of equity markets
- ▶ You want instant and broad diversification with exposure to a wide range of asset classes and investment styles, including domestic and international stocks

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ Beta: 0.35 (Barclays US Agg Bond TR USD)
- ▶ R<sup>2</sup>: 3.17 (Barclays US Agg Bond TR USD)
- ▶ Turnover (annualized)<sup>18</sup>: 15.00
- ▶ Net Assets: \$15.1 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 0.97%
  - Net\* 0.97%


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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Lifestyle

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.43%	7.42%	3.21%	1.69%
3 year	12.16%	17.31%	12.84%	11.94%
5 year	11.53%	17.34%	12.74%	11.75%
10 year	6.07%	7.89%	7.30%	6.00%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.46%
Cost Per \$1,000	\$14.60

The inception date for the sub-account<sup>1</sup> is October 2, 1997 and for the current underlying Portfolio is October 14, 2005.

¶See important notes.

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Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the sub-account charge that was in effect prior to October 14, 2005, which was 0.20% higher than the current sub-account charge.

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

The Index<sup>1</sup> is S&P 500.<sup>188</sup>

The Index<sup>2</sup> is 56% Russell 3000/ 24% MSCI ACWI ex-US/ 16% BarCap Agg Bond/ 4% BofAML HY Master II.<sup>118</sup>

The peer group is Aggressive Allocation.<sup>154</sup>

Principal risks include: Exchange-traded note (ETN) risk, Merger and Replacement Transition Risk, issuer, exchange traded funds, Convertible securities risk, fund of funds, manager, non-diversification, equity securities, derivatives, Lifestyle Portfolio Risk, large cap, liquidity, Risk of increase in expenses, high yield securities, target allocation, Emerging Markets Risk, initial public offerings, foreign securities, fixed-income securities, small/mid cap stock, mortgage-backed and asset-backed securities, Lifestyle Portfolio Risk, currency, market, sector, credit and counterparty, commodity and short sale. For more details, see Risk Disclosures section of this booklet.



## JH Lifestyle Growth - Active Strategies

13,68,101,123,125

Investing solely in John Hancock Funds II - Lifestyle Growth Portfolio (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JILGX

## Fund Highlights

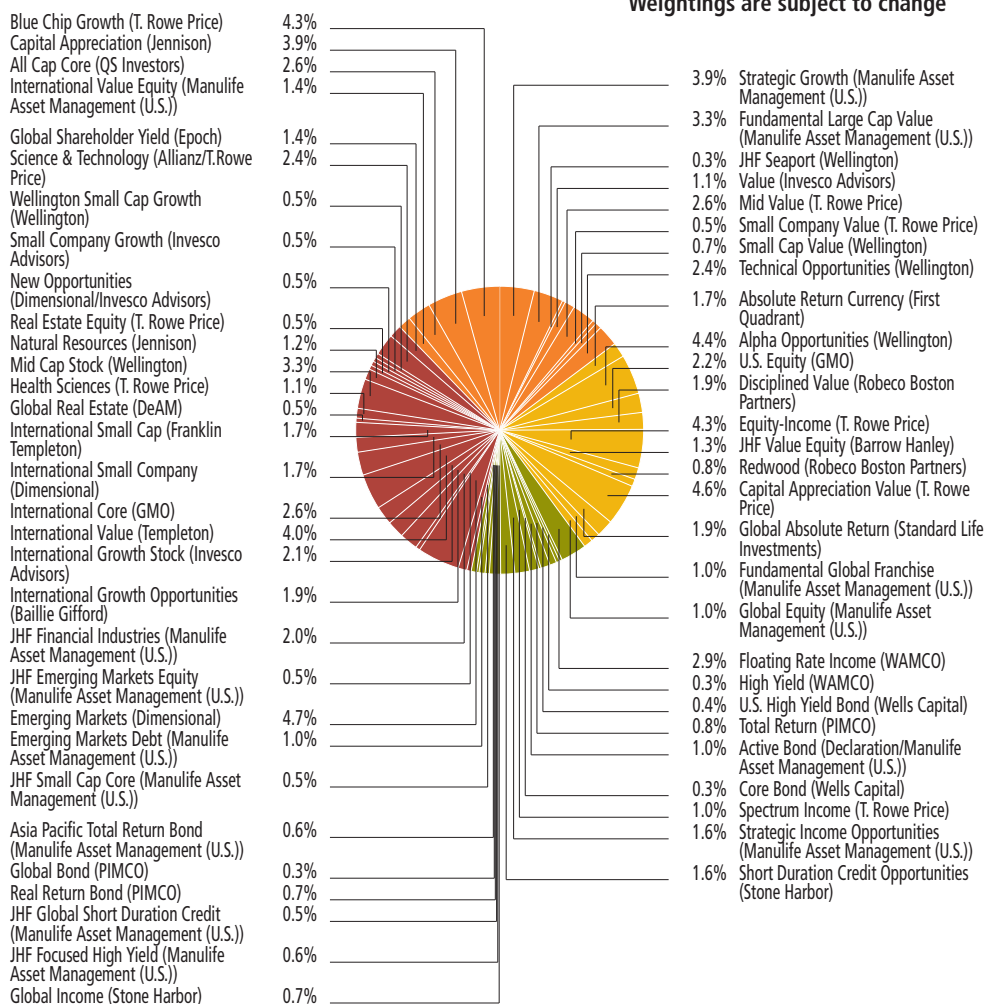
**Investment Objective and Policies** ▶ Seeks long-term growth of capital by investing approximately 80% of the portfolio's assets in underlying portfolios that invest primarily in equity securities and approximately 20% of its assets in portfolio's that invest primarily in fixed-income securities. Current income is also a consideration

### Why Consider this Fund

- ▶ You have a long-term investment horizon and seek growth of capital, with no consideration given to current income. You can accept levels of risk similar to that of equity markets
- ▶ You want instant and broad diversification with exposure to a wide range of asset classes and investment styles, including domestic and international, stocks

### Weightings\*

Weightings as of June 30, 2015  
Weightings are subject to change



### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)

- ▶ Beta: 0.21 (Barclays US Agg Bond TR USD)
- ▶ R<sup>2</sup>: 0.75 (Barclays US Agg Bond TR USD)
- ▶ Turnover (annualized)<sup>5</sup>: 16.00
- ▶ Net Assets: \$14.5 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 1.01%
  - Net\* 1.01%

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Lifestyle

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	2.78%	7.42%	3.59%	1.69%
3 year	13.81%	17.31%	15.41%	11.94%
5 year	12.93%	17.34%	14.74%	11.75%
10 year	6.07%	7.89%	7.60%	6.00%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.51%
Cost Per \$1,000	\$15.10

The inception date for the sub-account\* is October 2, 1997 and for the current underlying Portfolio is October 14, 2005.

\*See important notes.

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Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the sub-account charge that was in effect prior to October 14, 2005, which was 0.20% higher than the current sub-account charge.

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

The Index<sup>1</sup> is S&P 500.<sup>158</sup>

The Index<sup>2</sup> is 70% Russell 3000/ 30% MSCI ACWI ex-US.<sup>147</sup>

The peer group is Aggressive Allocation.<sup>154</sup>

Principal risks include: Risk of increase in expenses, currency, initial public offerings, Emerging Markets Risk, market, target allocation, small/mid cap stock, credit and counterparty, short sale, high yield securities, non-diversification, derivatives, equity securities, commodity, Lifestyle Portfolio Risk, manager, large cap, liquidity, Convertible securities risk, mortgage-backed and asset-backed securities, exchange traded funds, Merger and Replacement Transition Risk, sector, interest rate, issuer, Exchange-traded note (ETN) risk, Lifestyle Portfolio Risk, foreign securities, fund of funds and fixed-income securities. For more details, see Risk Disclosures section of this booklet



## JH Lifestyle Aggressive - Active Strategies

13.68, 101, 125

Investing solely in John Hancock Funds II - Lifestyle Aggressive Portfolio (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JILAX

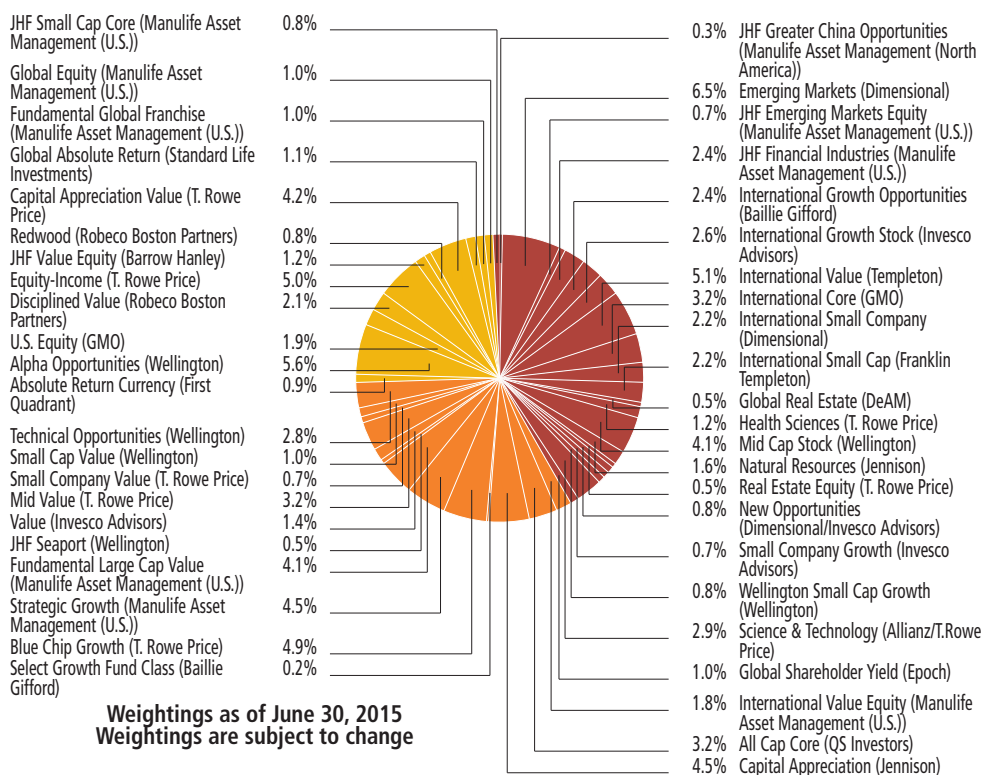
## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve long-term growth of capital by investing 100% of the portfolio's assets in underlying portfolios that invest primarily in equity securities.

### Why Consider this Fund

- ▶ You have a long-term investment horizon and seek maximum potential for growth of capital, with no consideration given to current income. You can accept levels of risk greater than that of equity markets
- ▶ You want instant and broad diversification with exposure to a wide range of asset classes and investment styles, including domestic and international stocks
- ▶ You want the convenience of having a portfolio that does not require you to monitor the financial markets in an effort to capitalize on short-term market trends and cycles

### Weightings\*



Weightings as of June 30, 2015  
Weightings are subject to change

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)


- ▶ Beta: 0.89 (S&P 500 TR USD)
- ▶ R<sup>2</sup>: 83.77 (S&P 500 TR USD)
- ▶ Turnover (annualized)<sup>5</sup>: 18.00
- ▶ Net Assets: \$4.6 billion
- ▶ Underlying fund expense ratios:
  - Gross<sup>5</sup>: 1.06%
  - Net<sup>5</sup>: 1.06%

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Conservative

Low  High

### Asset Class/Investment Style

Domestic Fixed Income

			High
			Medium
			Low

Short Int Long

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-0.87%	0.02%	0.02%
3 year	-0.75%	0.05%	0.02%
5 year	-0.72%	0.06%	0.02%
10 year	0.67%	1.34%	1.30%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.03%
Cost Per \$1,000	\$10.30

The inception date for the sub-account\* is July 30, 1999 and for the current underlying Portfolio is August 2, 1999.

¥See important notes.

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The Index is Citigroup U.S. Domestic 3-Month T-Bill.<sup>13</sup>

The peer group is Money Market Taxable.<sup>21</sup>

Principal risks include: currency, market, issuer, small/mid cap stock, liquidity, Risk of increase in expenses, credit and counterparty, credit and counterparty, Merger and Replacement Transition Risk, manager, foreign securities and fixed-income securities. For more details, see Risk Disclosures section of this booklet



# Money Market Fund<sup>13,82,83,91,101</sup>

Investing solely in JHVIT- Money Market Trust (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JHOXX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve maximum current income consistent with preservation of principal and liquidity.

### Why Consider this Fund

- ▶ You want to preserve capital and liquidity with a minimal amount of risk
- ▶ This portfolio will seek to maintain a stable net asset value

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

US Treasury Bill	6.4%
Ubs Finance (Delw)	4.9%
FHLBA 0.2117%	4.4%
Toronto Domin Holding	3.8%
Sumitomo Mitsui Bkg Corp N Y	3.0%
Old Line Funding Llc	3.0%
Bank Tokyo Mit Ufj Ny	2.9%
Bnp Paribas Fin Inc	2.8%
Caisse Centrale Djdn	2.8%
Toyota Motor Credit	2.6%

Totals 36.6% of assets

### Top Country Holdings (as of 6-30-15)α

United States	56.6%
Canada	26.0%
Japan	9.7%
Switzerland	4.0%
Australia	2.5%
France	1.3%

### Top Sector Weightings (as of 6-30-15)α

Cash & Cash Equivalents	100.0%
-------------------------	--------

### Asset Allocation (as of 6-30-15)α

Cash	100.0%
------	--------

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ Number of Holdings: 60
- ▶ Beta: -0.12 (BofAML USD LIBOR 3 Mon CM)
- ▶ R<sup>2</sup>: 7.11 (BofAML USD LIBOR 3 Mon CM)
- ▶ Turnover (annualized)<sup>5</sup>: 0%
- ▶ Net Assets: \$1.9 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 0.56%
  - Net\* 0.17%

Money Market Fund current 7-day yield is -0.86%. The current yield quotation more closely reflects the current earnings of the Money Market Fund as of the date this report was prepared while the Annualized returns above refer to a specific past holding period reflecting the period covered by this report. Due to Sales & Service fee, the subaccount's current yield may be lower than that of the underlying trust. Although the fund strives to maintain a positive yield, there is no guarantee the fund will be able to do so.

An investment in the underlying Money Market fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The underlying fund seeks to preserve a value of \$1.00 per share but it is possible to lose money by investing in the Money Market Fund that invests in the underlying fund.

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

## Sub-Account Details


### Risk/Return Category<sup>6A</sup>

Income

Low  High

### Asset Class/Investment Style

Domestic Fixed Income

	High
	Medium
	Low

Short Int Long

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	0.05%	1.32%	0.70%
3 year	-0.18%	0.83%	0.36%
5 year	0.36%	1.35%	0.89%
10 year	2.20%	3.10%	2.52%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.07%
Cost Per \$1,000	\$10.70

The inception date for the sub-account\* is March 31, 1995 and for the current underlying Portfolio is December 31, 1987.

¥See important notes.

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The Index is Barclays Capital 1-5 yr Government.<sup>86</sup>

The peer group is Short-Term Government.<sup>823</sup>

Principal risks include: credit and counterparty, market, manager, liquidity, Risk of increase in expenses, interest rate, Merger and Replacement Transition Risk and issuer. For more details, see Risk Disclosures section of this booklet



Vanguard®

# Vanguard Short-Term Federal Fund

15,83,120,125

Investing solely in Vanguard Short-Term Federal Fund (Admiral Class)

Managed by Vanguard Group, Inc.

Ticker Symbol\*: **VSGDX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to provide current income while maintaining limited price volatility.

### Why Consider this Fund

- ▶ You want a portfolio that invests in fixed-income securities that provide a steady stream of investment income and some protection against stock market volatility
- ▶ You want exposure to short-term fixed-income securities that have the guarantee, or implied guarantee, of the U.S. government

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

FHLMC 1%	5.5%
FHLMC 0.75%	3.4%
FNMA 1.25%	3.0%
Fannie Mae Single Family TBA 3%	
2030-04-01	2.5%
FHLBA 0.5%	2.4%
FHLBA 0.625%	2.4%
FHLMC 0.875%	2.3%
FHLMC 0.5%	2.2%
FNMA	2.0%
FNMA 1.125%	1.9%

**Totals 27.6% of assets**

### Top Country Holdings (as of 6-30-15)α

United States	82.3%
Tunisia	0.3%
Jordan	0.1%

### Top Sector Weightings (as of 6-30-15)α

Government	71.6%
Securitized	21.9%
Cash & Equivalents	6.5%

### Asset Allocation (as of 6-30-15)α

US Bond	93.2%
Cash	6.5%
Non US Bond	0.4%

## Key Statistics (as of 6-30-15 unless noted)β

- ▶ **Number of Holdings:** 655
- ▶ **Beta:** 0.83 (Barclays Government 1-5 Yr TR USD)
- ▶ **R<sup>2</sup>:** 90.40 (Barclays Government 1-5 Yr TR USD)
- ▶ **Effective Duration:** 2.28
- ▶ **YTM (Yield to Maturity):** 1.04
- ▶ **Average Credit Quality:** 8.00
- ▶ **Turnover (annualized):** 361.00
- ▶ **Net Assets:** \$5.0 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.10%
  - Net\* 0.10%
- ▶ **Effective Maturity:** 2.60

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 116
- ▶ **Category:** Short Government
- ▶ **No. of funds:** 3yr 116; 5yr 109; 10yr 93

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Income

Low  High

### Asset Class/Investment Style

#### Domestic Fixed Income

			High
			Medium
			Low
Short	Int	Long	

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	1.08%	1.86%	1.04%
3 year	3.30%	1.83%	2.28%
5 year	4.78%	3.35%	3.70%
10 year	4.87%	4.44%	4.19%

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.16%
Cost Per \$1,000	\$11.60

The inception date for the sub-account\* is July 30, 1999 and for the current underlying Portfolio is August 2, 1999.

¥See important notes.

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The Index is Barclays Capital U.S. Aggregate Bond<sup>15</sup>

The peer group is Intermediate-Term Bond.<sup>11</sup>

Principal risks include: credit and counterparty, liquidity, derivatives, Merger and Replacement Transition Risk, market, manager, fixed-income securities, foreign securities, mortgage-backed and asset-backed securities, high yield securities, Risk of increase in expenses and issuer. For more details, see Risk Disclosures section of this booklet



## Active Bond Fund<sup>10,13,69,73</sup>

Investing solely in John Hancock Funds II - Active Bond Fund (Class 1)

Sub-advised by Declaration Management & Research LLC/John Hancock Asset Management

Ticker Symbol\*: **JIADX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks income and capital appreciation.

### Why Consider this Fund

- ▶ You want a portfolio of securities with the potential to offer a steady stream of investment income and some protection against stock market volatility
- ▶ You want a portfolio that is similar in quality and duration to broad bond market indices

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)α

US Treasury Bond 3%	3.1%
FNMA	2.6%
US Treasury Note 2%	1.9%
US Treasury Bond 3.125%	1.3%
FNMA	1.0%
FNMA 4%	0.9%
FNMA 3%	0.8%
FNMA 3.5%	0.8%
FNMA 0.512%	0.7%
FNMA 4.5%	0.6%

**Totals 13.7% of assets**

#### Asset Allocation (as of 6-30-15)α

US Bond	80.7%
Non US Bond	9.8%
Cash	7.4%
Preferred	1.7%
Other	0.3%
US Stock	0.2%

#### Top Country Holdings (as of 6-30-15)α

United States	80.7%
Cayman Islands	1.8%
Canada	1.2%
United Kingdom	1.1%
Luxembourg	1.0%
Netherlands	0.7%
France	0.7%
Bermuda	0.6%
Mexico	0.6%
Ireland	0.4%

#### Top Sector Weightings (as of 6-30-15)α

Securitized	44.4%
Corporate	38.2%
Government	9.4%
Cash & Equivalents	7.4%
Municipal	0.2%

### Key Statistics (as of 6-30-15 unless noted)α

- ▶ **Number of Holdings:** 1239
- ▶ **Beta:** 1.01 (Barclays US Agg Bond TR USD)
- ▶ **R<sup>2</sup>:** 87.84 (Barclays US Agg Bond TR USD)
- ▶ **Effective Duration:** 5.10
- ▶ **YTM (Yield to Maturity):** 3.68
- ▶ **Average Credit Quality:** 11.00
- ▶ **Turnover (annualized)<sup>3</sup>:** 81.00
- ▶ **Net Assets:** \$1.8 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.69%
  - Net\* 0.69%
- ▶ **Effective Maturity:** 7.60
- ▶ **Prospective Earnings Yield:** 25.65

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 935
- ▶ **Category:** Intermediate-Term Bond
- ▶ **No. of funds:** 3yr 935; 5yr 811; 10yr 593

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=5; 5yr=5; 10yr=n/a. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Income

Low  High

### Asset Class/Investment Style

Global Fixed Income



Short Int Long

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-7.73%	-7.46%	-5.26%
3 year	-1.36%	-2.11%	0.71%
5 year	2.52%	1.35%	2.81%
10 year	3.70%	3.36%	3.88%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.52%
Cost Per \$1,000	\$15.20

The inception date for the sub-account\* is September 6, 2002 and for the current underlying Portfolio is December 1, 1993.

¥See important notes.

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

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

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

The Index is [JPMorgan GBI Global FX NY Unhedged](#).<sup>107</sup>

The peer group is [World Bond](#).<sup>147</sup>

Principal risks include: manager, Risk of increase in expenses, credit and counterparty, foreign securities, interest rate, high yield securities, leverage, mortgage-backed and asset-backed securities, liquidity, Merger and Replacement Transition Risk, non-diversification, market, Emerging Markets Risk, equity securities, issuer, derivatives, short sale and currency. For more details, see Risk Disclosures section of this booklet.



PIMCO

## PIMCO Global Bond Fund<sup>55</sup>

Investing solely in PIMCO Global Bond Fund (Unhedged) (Administrative Class)

Managed by Pacific Investment Management Company

Ticker Symbol\*: **PADMX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks maximum total return, investing for both current income (bond coupons and dividends) and capital appreciation (bond price movements), consistent with preservation of capital and prudent investment management.

### Why Consider This Fund

- ▶ You want a portfolio of securities that offers a steady stream of income and some protection against stock market volatility but can accept the inherent risks of investing in foreign securities and below-investment-grade fixed income securities
- ▶ You want to diversify the fixed-income portion of your portfolio by adding debt issues from a range of countries worldwide, including the United States

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)<sup>a</sup>

10 Year US Treasury Note Future June15	26.3%
Irs Usd 2.500 06/17/15-7y Cme	17.3%
Irs Gbp 1.500 09/16/15-2y Cme	10.8%
Irs Eur 0.150 09/16/15-2y Cme	10.4%
Cdx Itraxx Sen22 5y Ice	10.3%
Japanese Govt Bond (20y) #150	9.7%
FNMA	9.1%
Irs Eur 0.750 09/16/15-10y Cme	7.6%
Irs Mxn 4.300 09/03/15-1y (Wht) Cme	6.6%
Irs Jpy 0.500 09/17/14-7y Cme	6.1%

**Totals 114.2% of assets**

### Asset Allocation (as of 6-30-15)<sup>a</sup>

Cash	59.3%
Non US Bond	50.9%
Other	2.9%
US Stock	0.2%
US Bond	-13.3%

### Top Country Holdings (as of 6-30-15)<sup>a</sup>

United States	29.2%
Italy	3.6%
Canada	2.2%
Slovenia	1.4%
Netherlands	1.2%
Supranational	1.1%
France	0.8%
Norway	0.5%
Brazil	0.5%
Australia	0.4%

### Top Sector Weightings (as of 6-30-15)<sup>a</sup>

Cash & Equivalents	61.8%
Government	37.1%
Corporate	9.6%
Municipal	1.3%
Securitized	-0.7%
Derivative	-12.4%

## Key Statistics (as of 6-30-15 unless noted<sup>b</sup>)

- ▶ **Number of Holdings:** 485
- ▶ **Beta:** 1.10 (JPM GBI Global FX NY TR USD)
- ▶ **R<sup>2</sup>:** 89.85 (JPM GBI Global FX NY TR USD)
- ▶ **Effective Duration:** 7.12
- ▶ **YTM (Yield to Maturity):** 3.79
- ▶ **Average Credit Quality:** AA
- ▶ **Turnover (annualized):** 358.00
- ▶ **Net Assets:** \$594.6 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.81%
  - Net\* 0.80%
- ▶ **Effective Maturity:** 10.23

## Morningstar Information\*\*\* (as of 6-30-15)<sup>a</sup>

- ▶ **Overall Morningstar Rating™:** ★★
- ▶ **Overall # of Funds in Category:** 308
- ▶ **Category:** World Bond
- ▶ **No. of funds:** 3yr 308; 5yr 237; 10yr 137


Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=2; 5yr=3; 10yr=3. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Income

Low  High

### Asset Class/Investment Style

Domestic Fixed Income

			High
			Medium
			Low
Short	Int	Long	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	2.17%	1.86%	-0.65%
3 year	5.48%	1.83%	4.10%
5 year	6.86%	3.35%	5.74%
10 year	6.35%	4.44%	5.58%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.21%
Cost Per \$1,000	\$12.10

The inception date for the sub-account\* is May 14, 2004 and for the current underlying Portfolio is May 17, 2004.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is Barclays Capital U.S. Aggregate Bond.<sup>115</sup>

The peer group is Multisector Bond.<sup>122</sup>

Principal risks include: mortgage-backed and asset-backed securities, market, fixed-income securities, derivatives, currency, Emerging Markets Risk, Merger and Replacement Transition Risk, credit and counterparty, equity securities, foreign securities, interest rate, issuer, manager, Risk of increase in expenses, liquidity and high yield securities. For more details, see Risk Disclosures section of this booklet.



# Strategic Income Opportunities Fund

8,13,15,48,91,101

Investing solely in JHVIT - Strategic Income Opportunities Trust (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JESNX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to maximize total return consisting of current income and capital appreciation.

### Why Consider this Fund

- ▶ You want a portfolio of securities with the potential to produce both a steady stream of investment income and capital appreciation while offering some protection against stock market volatility
- ▶ You want exposure to a diversified portfolio of bonds which may include higher quality government and foreign bonds, as well as lower quality high-yield bonds including emerging market debt

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

New Zealand(Govt) 6%	1.6%
Us Long Bond(Cbt) Jun15 Xcbt 20150619	1.5%
Canada Govt 1.5%	1.5%
New Zealand(Govt) 6%	1.4%
Thailand(Kingdom) 3.25%	1.1%
Charter Communications Inc Class A	0.9%
Norway(Kingdom Of) 4.5%	0.9%
Amer Intl Grp FRN	0.8%
Lifepoint Health 5.5%	0.7%
Canada Govt 1.5%	0.7%

**Totals 11.1% of assets**

### Asset Allocation (as of 6-30-15)α

US Bond	43.1%
Non US Bond	23.2%
Cash	12.5%
Other	6.6%
US Stock	6.5%
Preferred	6.4%

### Top Country Holdings (as of 6-30-15)α

United States	44.1%
New Zealand	3.4%
Canada	2.9%
Mexico	2.0%
Philippines	1.9%
Singapore	1.7%
Supranational	1.2%
Australia	1.1%
Thailand	1.1%
Norway	0.9%

### Top Sector Weightings (as of 6-30-15)α

Corporate	50.3%
Government	15.9%
Cash & Equivalents	12.5%
Securitized	9.5%
Derivative	-1.5%

## Key Statistics (as of 6-30-15 unless noted)β

- ▶ **Number of Holdings:** 450
- ▶ **Beta:** 0.65 (Barclays US Agg Bond TR USD)
- ▶ **R<sup>2</sup>:** 39.08 (Barclays US Agg Bond TR USD)
- ▶ **Effective Duration:** 3.12
- ▶ **YTM (Yield to Maturity):** 4.16
- ▶ **Average Credit Quality:** 13.00
- ▶ **Turnover (annualized):** 50.00
- ▶ **Net Assets:** \$541.7 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.74%
  - Net\* 0.74%
- ▶ **Effective Maturity:** 8.18
- ▶ **Prospective Earnings Yield:** 17.45

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 223
- ▶ **Category:** Multisector Bond
- ▶ **No. of funds:** 3yr 223; 5yr 163; 10yr 97

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Income

Low  High

### Asset Class/Investment Style

Domestic Fixed Income

			High
			Medium
			Low
Short	Int	Long	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-3.88%	-0.87%	-1.12%
3 year	6.22%	6.39%	6.02%
5 year	7.61%	8.37%	7.61%
10 year	6.75%	7.51%	6.53%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.23%
Cost Per \$1,000	\$12.30

The inception date for the sub-account\* is October 2, 1997 and for the current underlying Portfolio is December 31, 1996.

¥See important notes.

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is Citigroup High Yield.<sup>12</sup>

The peer group is High-Yield Bond.<sup>19</sup>

Principal risks include: mortgage-backed and asset-backed securities, Convertible securities risk, credit and counterparty, market, currency, sector, equity securities, foreign securities, interest rate, derivatives, issuer, high yield securities, Merger and Replacement Transition Risk, manager, fixed-income securities, liquidity and Risk of increase in expenses. For more details, see Risk Disclosures section of this booklet



## High Yield Fund <sup>13,45,54,69,73,115</sup>

Investing solely in John Hancock Funds II - High Yield Fund (Class 1)

Sub-advised by Western Asset Management Co. (WAMCO)

Ticker Symbol\*: JIHDX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to realize an above-average total return over a market cycle of three to five years, consistent with reasonable risk.

### Why Consider this Fund

- ▶ You want a portfolio of securities with the potential to offer a steady stream of investment income and some protection against stock market volatility
- ▶ You want the potential for a higher return compared to investment-grade bonds and can accept the higher levels of relative volatility

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Us 10yr Note(Cbt) Jun15 Xcvt 20150619	2.6%
Bws006205 Cds Usd P F 5.00000 2	
Cpcdx	1.9%
Sprint Cap 8.75%	1.9%
Bws006205 Cds Usd R V 03mevent 1	
Cpcdx	1.7%
Gmac Cap Tr I Pfd	1.2%
Lantheus Medical Imaging 9.75%	0.8%
Citigroup Inc	0.8%
Kcad Holdings I Limited Common Stock	0.8%
New Cotai Llc / New Cotai C 144A	
10.625%	0.7%
Djo Fin Llc / Djo Fin 144A 1.95%	0.7%

**Totals 13.1% of assets**

### Top Country Holdings (as of 6-30-15)α

United States	64.2%
United Kingdom	3.5%
Luxembourg	3.5%
Netherlands	2.7%
Canada	2.7%
Australia	1.6%
Mexico	1.0%
France	1.0%
Brazil	0.8%
Ireland	0.8%

### Top Sector Weightings (as of 6-30-15)α

Corporate	81.7%
Government	5.3%
Cash & Equivalents	3.5%
Securitized	3.0%
Derivative	-0.1%

### Asset Allocation (as of 6-30-15)α

US Bond	67.3%
Non US Bond	21.9%
Cash	3.5%
Other	2.7%
US Stock	2.3%
Preferred	1.9%
Non US Stock	0.6%

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 383
- ▶ **Beta:** 0.42 (Barclays US Agg Bond TR USD)
- ▶ **R<sup>2</sup>:** 6.94 (Barclays US Agg Bond TR USD)
- ▶ **Effective Duration:** 4.06
- ▶ **YTM (Yield to Maturity):** 7.65
- ▶ **Average Credit Quality:** 16.00
- ▶ **Turnover (annualized)<sup>5</sup>:** 70.00
- ▶ **Net Assets:** \$642.8 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.76%
  - Net\* 0.76%
- ▶ **Effective Maturity:** 5.24
- ▶ **Prospective Earnings Yield:** 9.93

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★ ★ ★
- ▶ **Overall # of Funds in Category:** 611
- ▶ **Category:** High Yield Bond
- ▶ **No. of funds:** 3yr 611; 5yr 516; 10yr 362

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=3; 10yr=n/a. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### Domestic Equity

			Large Medium Small
Value	Blend	Growth	

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	5.25%	4.13%	3.15%
3 year	19.28%	17.34%	15.80%
5 year	18.24%	16.50%	15.03%
10 year	6.49%	7.05%	6.59%

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.17%
Cost Per \$1,000	\$11.70

The inception date for the sub-account\* is November 22, 1996 and for the current underlying Portfolio is May 17, 2004.

¥See important notes.

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

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

The Index is Russell 1000 Value.<sup>146</sup>

The peer group is Large Value.<sup>144</sup>

Principal risks include: foreign securities, small/mid cap stock, large cap, fixed-income securities, liquidity, derivatives, Risk of increase in expenses, currency, credit and counterparty, issuer, equity securities, Merger and Replacement Transition Risk, exchange traded funds, manager and market. For more details, see Risk Disclosures section of this booklet



# Fundamental Large Cap Value Fund

5,13,73,101,102,117

Investing solely in JHVIT - Fundamental Large Cap Value Trust (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: -

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term capital appreciation.

### Why Consider this Fund

▶ You want potential long-term growth of capital and can accept the inherent risks of investing in stocks

### Holdings, Weightings and Allocations of the underlying fund








#### Top Holdings (as of 6-30-15)α

JPMorgan Chase & Co	4.8%
Bank of America Corporation	4.5%
American International Group Inc	4.3%
Citigroup Inc	4.3%
Goldman Sachs Group Inc	4.1%
Lennar Corp	3.7%
Apple Inc	3.6%
General Electric Co	3.1%
Morgan Stanley	2.9%
AllianceBernstein Holding L.P.	2.8%
<b>Totals</b>	<b>38.1% of assets</b>









#### Asset Allocation (as of 6-30-15)α

US Stock	84.5%
Non US Stock	14.5%
Cash	1.0%

#### Top Country Holdings (as of 6-30-15)α

United States	84.5%	
United Kingdom	4.2%	
Switzerland	3.0%	
Germany	2.8%	
South Korea	2.3%	
France	1.1%	
Netherlands	1.1%	

#### Top Sector Weightings (as of 6-30-15)α

Financial Services	34.5%	
Technology	14.0%	
Consumer Cyclical	13.4%	
Energy	10.9%	
Consumer Defensive	10.3%	
Industrials	7.5%	
Healthcare	6.4%	
Basic Materials	2.2%	

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ Number of Holdings: 52
- ▶ Sharpe Ratio: 1.82
- ▶ Beta: 1.07 (Russell 1000 Value TR USD)
- ▶ R<sup>2</sup>: 86.70 (Russell 1000 Value TR USD)
- ▶ Turnover (annualized)<sup>5</sup>: 29.00
- ▶ Net Assets: \$1.7 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 0.70%
  - Net\* 0.70%
- ▶ Market Cap Value: 58772.59

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ Overall Morningstar Rating™: ★★★★★
- ▶ Overall # of Funds in Category: 1185
- ▶ Category: Large Value
- ▶ No. of funds: 3yr 1185; 5yr 1045; 10yr 734

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=5; 5yr=5; 10yr=3. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### Hybrid

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index <sup>1</sup>	Index <sup>2</sup>	Peer Group
1 year	3.52%	7.42%	5.28%	2.06%
3 year	11.51%	17.31%	10.98%	10.08%
5 year	12.28%	17.34%	11.76%	10.38%
10 year	6.39%	7.89%	6.79%	5.98%

#### Expense Ratio (as of 6-30-15)<sup>\*\*\*\*</sup>

Expense Ratio <sup>****</sup>	1.26%
Cost Per \$1,000	\$12.60

The inception date for the sub-account\* is May 2, 2003 and for the current underlying Portfolio is July 26, 1975.

¥See important notes.

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

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

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

The Index<sup>1</sup> is **S&P 500**.<sup>58</sup>

The Index<sup>2</sup> is **60% S&P 500 / 40% BarCap Agg Bond**.<sup>18</sup>

The peer group is **Moderate Allocation**.<sup>n20</sup>

Principal risks include: manager, foreign securities, interest rate, growth stock, fixed-income securities, currency, credit and counterparty. Risk of increase in expenses, issuer, mortgage-backed and asset-backed securities, U.S. government securities, market, asset, liquidity and Merger and Replacement Transition Risk. For more details, see Risk Disclosures section of this booklet



## American Balanced Fund<sup>31,40,50,61,65</sup>

Investing solely in American Balanced Fund® (Class R5)

Managed by American Funds Group

Ticker Symbol\*: **RLBFX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve conservation of capital, current income and long-term growth of capital and income.

### Why Consider this Fund

- ▶ You want long-term growth of capital with some protection against stock market volatility, but can accept the inherent risks of investing in stocks
- ▶ You want exposure to equity and fixed-income asset classes
- ▶ American Funds' multiple portfolio counselor system allows each investment professional to implement his or her best investment ideas and helps to provide diversification for the overall portfolio

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)<sup>a</sup>

Microsoft Corp	3.2%
Comcast Corp Class A	2.6%
Boeing Co	2.4%
Home Depot Inc	2.3%
Philip Morris International Inc	2.3%
Wells Fargo & Co	2.2%
Berkshire Hathaway Inc Class A	2.1%
Amazon.com Inc	1.9%
Merck & Co Inc	1.7%
Lockheed Martin Corp	1.7%

**Totals 22.4% of assets**

### Asset Allocation (as of 6-30-15)<sup>a</sup>

US Stock	56.1%
US Bond	26.3%
Cash	6.9%
Non US Stock	6.4%
Non US Bond	2.5%
Other	1.8%
Preferred	0.1%

### Top Country Holdings (as of 6-30-15)<sup>a</sup>

United States	82.4%
Switzerland	2.2%
Canada	2.1%
United Kingdom	1.0%
Netherlands	0.9%
China	0.6%
Taiwan	0.5%
France	0.4%
Australia	0.4%
Luxembourg	0.2%

### Top Sector Weightings (as of 6-30-15)<sup>a</sup>

Financial Services	11.0%
Industrials	8.7%
Technology	8.6%
Consumer Defensive	7.7%
Healthcare	7.6%
Consumer Cyclical	7.5%
Energy	4.4%
Basic Materials	3.7%
Communication Services	2.8%
Utilities	0.4%
Real Estate	0.2%

## Key Statistics (as of 6-30-15 unless noted<sup>b</sup>)<sup>a</sup>

- ▶ **Number of Holdings:** 1396
- ▶ **Sharpe Ratio:** 1.94
- ▶ **Beta:** 0.70 (S&P 500 TR USD)
- ▶ **R<sup>2</sup>:** 94.06 (S&P 500 TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 68.00
- ▶ **Net Assets:** \$81.8 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.34%
  - Net\* 0.34%
- ▶ **Market Cap Value:** 99895.69

## Morningstar Information<sup>\*\*\*</sup> (as of 6-30-15)<sup>a</sup>

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 815
- ▶ **Category:** Moderate Allocation
- ▶ **No. of funds:** 3yr 815; 5yr 703; 10yr 472

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=5; 5yr=5; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	3.76%	7.42%	5.49%
3 year	17.20%	17.31%	16.50%
5 year	15.57%	17.34%	15.84%
Since inception	9.32%	n/a	n/a

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.54%
Cost Per \$1,000	\$15.40

The inception date for the sub-account\* is May 29, 2009 and for the current underlying Portfolio is April 28, 2006.

¥See important notes.

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

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

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

The Index is S&P 500.<sup>158</sup>

The peer group is Large Blend.<sup>112</sup>

Principal risks include: issuer, liquidity, currency, small/mid cap stock, Merger and Replacement Transition Risk, manager, foreign securities, market, large cap, credit and counterparty and Risk of increase in expenses. For more details, see Risk Disclosures section of this booklet



PARNASSUS INVESTMENTS

## Parnassus Core Equity Fund<sup>132</sup>

Investing solely in Parnassus Core Equity Fund (Institutional Class)

Managed by Parnassus Investments

Ticker Symbol\*: **PRILX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term capital appreciation and current income.

### Why Consider this Fund

- ▶ You want a portfolio that focuses on corporate responsibility
- ▶ You want a portfolio that does not invest in alcohol, tobacco, gambling or weapons production

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Danaher Corp	4.4%
Pentair PLC	3.8%
Motorola Solutions Inc	3.7%
Mondelez International Inc Class A	3.7%
eBay Inc	3.4%
Gilead Sciences Inc	3.3%
United Parcel Service Inc (UPS) Class B	3.1%
CVS Health Corp	3.1%
Procter & Gamble Co	3.0%
Allergan PLC	3.0%

**Totals 34.5% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	85.2%
Non US Stock	9.6%
Cash	5.3%

### Top Country Holdings (as of 6-30-15)α

United States	85.2%
Canada	4.6%
Ireland	3.0%
Switzerland	2.0%

### Top Sector Weightings (as of 6-30-15)α

Industrials	24.4%
Technology	15.8%
Healthcare	15.3%
Consumer Defensive	13.4%
Basic Materials	6.8%
Consumer Cyclical	5.8%
Financial Services	4.9%
Utilities	3.4%
Energy	2.8%
Communication Services	2.2%

## Key Statistics (as of 6-30-15 unless noted<sup>β</sup>)α

- ▶ **Number of Holdings:** 41
- ▶ **Sharpe Ratio:** 1.95
- ▶ **Beta:** 0.96 (S&P 500 TR USD)
- ▶ **R<sup>2</sup>:** 88.69 (S&P 500 TR USD)
- ▶ **Turnover (annualized)<sup>β</sup>:** 14.32
- ▶ **Net Assets:** \$11.9 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.67%
  - Net\* 0.67%
- ▶ **Market Cap Value:** 33753.82

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 1380
- ▶ **Category:** Large Blend
- ▶ **No. of funds:** 3yr 1380; 5yr 1225; 10yr 854

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### International/Global Equity



Value Blend Growth

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	1.13%	1.43%	0.60%
3 year	13.06%	14.27%	13.46%
5 year	10.99%	13.10%	12.29%
10 year	7.82%	6.38%	6.65%

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.71%
Cost Per \$1,000	\$17.10

The inception date for the sub-account\* is November 22, 1996 and for the current underlying Portfolio is December 31, 1992.

¥See important notes.

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

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

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

The Index is [MSCI World](#).<sup>403</sup>

The peer group is [World Stock](#).<sup>448</sup>

Principal risks include: derivatives, Merger and Replacement Transition Risk, small/mid cap stock, credit and counterparty, Value stock, Risk of increase in expenses, foreign securities, market, liquidity, issuer and manager. For more details, see Risk Disclosures section of this booklet



# Franklin Mutual Global Discovery Fund<sup>42, 61, 132</sup>

Investing solely in Franklin Mutual Global Discovery Fund (Class Z)

Managed by Franklin Templeton

Ticker Symbol\*: **MDISX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks capital appreciation.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in stocks, including small- and medium-sized company stocks, both in the United States and abroad
- ▶ You want exposure to traditional value stocks, but also those in other special situations such as distressed securities and corporate restructurings

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Teva Pharmaceutical Industries Ltd ADR	2.1%
Merck & Co Inc	2.1%
Apple Inc	2.0%
Microsoft Corp	1.9%
Wells Fargo & Co	1.6%
Volkswagen AG	1.6%
Medtronic PLC	1.5%
ACE Ltd	1.5%
British American Tobacco PLC	1.4%
Lorillard Inc	1.3%

**Totals 17.0% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	47.5%
Non US Stock	37.4%
Cash	8.5%
Other	2.7%
US Bond	2.4%
Preferred	1.6%

### Top Country Holdings (as of 6-30-15)α

United States	50.1%
United Kingdom	11.0%
Switzerland	3.6%
Israel	3.4%
France	3.4%
Netherlands	3.3%
Germany	3.0%
China	2.4%
South Korea	2.1%
Canada	1.4%

### Top Sector Weightings (as of 6-30-15)α

Financial Services	25.3%
Healthcare	12.2%
Consumer Cyclical	10.1%
Technology	10.0%
Consumer Defensive	7.7%
Energy	7.3%
Industrials	4.5%
Communication Services	4.3%
Basic Materials	2.4%
Utilities	1.1%

## Key Statistics (as of 6-30-15 unless noted)α

- ▶ **Number of Holdings:** 170
- ▶ **Sharpe Ratio:** 1.76
- ▶ **Beta:** 0.80 (S&P 500 TR USD)
- ▶ **R<sup>2</sup>:** 82.78 (S&P 500 TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 23.66
- ▶ **Net Assets:** \$27.5 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.99%
  - Net\* 0.99%
- ▶ **Market Cap Value:** 44038.08

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 988
- ▶ **Category:** World Stock
- ▶ **No. of funds:** 3yr 988; 5yr 744; 10yr 388

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=3; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth & Income

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	9.49%	7.42%	9.39%
3 year	16.54%	17.31%	17.48%
5 year	16.19%	17.34%	16.96%
10 year	8.96%	7.89%	8.26%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.36%
Cost Per \$1,000	\$13.60

The inception date for the sub-account\* is March 31, 1995 and for the current underlying Portfolio is December 31, 1975.

¥See important notes.

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

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

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

The Index is **S&P 500**.<sup>58</sup>

The peer group is **Large Growth**.<sup>613</sup>

Principal risks include: market, Merger and Replacement Transition Risk, Risk of increase in expenses, growth stock, credit and counterparty, manager, foreign securities, liquidity and issuer. For more details, see Risk Disclosures section of this booklet.



# Fidelity Contra Fund

Investing solely in Fidelity Contrafund

Managed by Fidelity Management & Research Company (Fidelity)

Ticker Symbol\*: **FCNTX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve capital appreciation.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in stocks
- ▶ You want exposure to a portfolio focusing on large-cap stocks but with the flexibility to invest some assets in mid-cap and small-cap stocks

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Berkshire Hathaway Inc Class A	4.6%
Apple Inc	4.1%
Wells Fargo & Co	3.5%
Facebook Inc Class A	3.5%
Biogen Inc	3.1%
Walt Disney Co	2.3%
Google Inc Class A	2.2%
Google Inc Class C Capital Stock	2.1%
Visa Inc Class A	1.9%
Gilead Sciences Inc	1.9%

**Totals 29.2% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	89.8%
Non US Stock	8.9%
Cash	0.7%
Preferred	0.5%
US Bond	0.1%

### Top Country Holdings (as of 6-30-15)α

United States	89.9%
United Kingdom	1.9%
Canada	1.3%
China	0.9%
Ireland	0.8%
Netherlands	0.8%
India	0.6%
Hong Kong	0.5%
Israel	0.4%
Japan	0.4%

### Top Sector Weightings (as of 6-30-15)α

Technology	23.3%
Healthcare	18.9%
Financial Services	18.8%
Consumer Cyclical	16.3%
Industrials	8.2%
Consumer Defensive	5.4%
Basic Materials	2.8%
Energy	1.7%
Communication Services	1.5%
Real Estate	0.4%

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 345
- ▶ **Sharpe Ratio:** 1.84
- ▶ **Beta:** 0.94 (S&P 500 TR USD)
- ▶ **R<sup>2</sup>:** 79.82 (S&P 500 TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 45.00
- ▶ **Net Assets:** \$111.8 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.64%
  - Net\* 0.64%
- ▶ **Market Cap Value:** 70448.79

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 1533
- ▶ **Category:** Large Growth
- ▶ **No. of funds:** 3yr 1533; 5yr 1317; 10yr 918

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=3; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	6.42%	7.42%	5.49%
3 year	16.24%	17.31%	16.50%
5 year	16.30%	17.34%	15.84%
10 year	6.94%	7.89%	7.26%

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.00%
Cost Per \$1,000	\$10.00

The inception date for the sub-account\* is January 19, 1993 and for the current underlying Portfolio is February 28, 1993.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is S&P 500.<sup>158</sup>

The peer group is Large Blend.<sup>112</sup>

Principal risks include: equity securities, currency, market, index management, credit and counterparty, liquidity, Merger and Replacement Transition Risk, issuer, foreign securities, Risk of increase in expenses and derivatives. For more details, see Risk Disclosures section of this booklet.



## 500 Index Fund<sup>9,13,76,91,101,110</sup>

Investing solely in JHVIT - 500 Index Trust B (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: **JFIVX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve the approximate aggregate total return of a broad U.S. domestic equity market index.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in stocks
- ▶ You want returns that track the performance of the S&P 500 Index, an unmanaged index of 500 common stocks, primarily issued by large U.S. companies

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)α

Apple Inc	3.7%
S+p 500 Future Jun15 Xcme 20150618	3.6%
Microsoft Corp	2.0%
Exxon Mobil Corporation	1.8%
General Electric Co	1.4%
Johnson & Johnson	1.4%
Wells Fargo & Co	1.3%
Berkshire Hathaway Inc Class B	1.3%
JPMorgan Chase & Co	1.2%
Procter & Gamble Co	1.1%

**Totals 18.8% of assets**

#### Asset Allocation (as of 6-30-15)α

US Stock	95.0%
Cash	3.6%
Non US Stock	1.2%
Other	0.2%

#### Top Country Holdings (as of 6-30-15)α

United States	91.4%
Ireland	0.6%
China	0.2%
Switzerland	0.2%
Singapore	0.1%
United Kingdom	0.1%

#### Top Sector Weightings (as of 6-30-15)α

Technology	16.8%
Healthcare	14.0%
Financial Services	13.6%
Industrials	10.3%
Consumer Cyclical	10.1%
Consumer Defensive	8.8%
Energy	7.9%
Communication Services	3.7%
Utilities	2.8%
Basic Materials	2.8%
Real Estate	2.0%

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 506
- ▶ **Sharpe Ratio:** 1.88
- ▶ **Beta:** 1.00 (S&P 500 TR USD)
- ▶ **R<sup>2</sup>:** 100.00 (S&P 500 TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 2.00
- ▶ **Net Assets:** \$3.6 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.53%
  - Net\* 0.30%
- ▶ **Market Cap Value:** 72949.77

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★ ★ ★
- ▶ **Overall # of Funds in Category:** 1380
- ▶ **Category:** Large Blend
- ▶ **No. of funds:** 3yr 1380; 5yr 1225; 10yr 854

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=4; 10yr=3. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details









### Risk/Return Category<sup>6A</sup>

#### Growth & Income

Low  High

### Asset Class/Investment Style

#### Domestic Equity

			Large
			Medium
			Small

Value Blend Growth

### Performance\*\*

#### Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	4.47%	5.54%	3.15%
3 year	16.04%	17.19%	15.80%
5 year	15.16%	16.95%	15.03%
10 year	6.14%	7.30%	6.59%

#### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.06%
Cost Per \$1,000	\$10.60

The inception date for the sub-account\* is May 4, 2007 and for the current underlying Portfolio is August 24, 2006.

¥See important notes.

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

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

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

The Index is CRSP US Large Cap Value Index.<sup>1144</sup>

The peer group is Large Value.<sup>114</sup>

Principal risks include: Risk of increase in expenses, large cap, market, Value stock, issuer, Merger and Replacement Transition Risk, liquidity and credit and counterparty. For more details, see Risk Disclosures section of this booklet.



Vanguard®

# Vanguard Value Index Fund<sup>98,125</sup>

Investing solely in Vanguard Value Index Fund (Admiral Class)

Managed by Vanguard Group, Inc.

Ticker Symbol\*: **VVIAX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to track the performance of the CRSP US Large Cap Value Index, a benchmark index that measures the investment return of large-capitalization value stocks.

### Why Consider this Fund

- ▶ You want a simple, low-cost way to invest in large-capitalization value stocks
- ▶ You have a long time horizon (at least five years) and are seeking long-term growth of capital

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α


Exxon Mobil Corporation	3.4%
Microsoft Corp	3.3%
Wells Fargo & Co	2.8%
Johnson & Johnson	2.7%
General Electric Co	2.6%
Berkshire Hathaway Inc Class B	2.5%
JPMorgan Chase & Co	2.4%
Pfizer Inc	2.1%
Verizon Communications Inc	2.0%
Procter & Gamble Co	2.0%

**Totals 25.8% of assets**











### Asset Allocation (as of 6-30-15)α

US Stock	99.2%
Non US Stock	0.8%

### Top Country Holdings (as of 6-30-15)α

United States	99.2%	
Switzerland	0.4%	
United Kingdom	0.2%	
Singapore	0.2%	

### Top Sector Weightings (as of 6-30-15)α

Financial Services	22.1%	
Healthcare	17.0%	
Technology	11.2%	
Industrials	11.1%	
Consumer Defensive	11.0%	
Energy	10.2%	
Utilities	5.4%	
Consumer Cyclical	4.4%	
Communication Services	4.1%	
Basic Materials	3.4%	
Real Estate	0.2%	

## Key Statistics (as of 6-30-15 unless noted<sup>§</sup>)α

- ▶ **Number of Holdings:** 317
- ▶ **Sharpe Ratio:** 1.86
- ▶ **Beta:** 1.00 (CRSP US Large Cap Value TR USD)
- ▶ **R<sup>2</sup>:** 99.85 (CRSP US Large Cap Value TR USD)
- ▶ **Turnover (annualized)<sup>§</sup>:** 6.00
- ▶ **Net Assets:** \$37.8 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.09%
  - Net\* 0.09%
- ▶ **Market Cap Value:** 74785.49

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 1185
- ▶ **Category:** Large Value
- ▶ **No. of funds:** 3yr 1185; 5yr 1045; 10yr 734

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.


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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Sector

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-5.33%	-2.90%	-5.94%
3 year	12.74%	8.02%	9.81%
5 year	14.38%	12.47%	12.36%
10 year	10.16%	6.88%	7.34%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.39%
Cost Per \$1,000	\$13.90

The inception date for the sub-account\* is April 27, 2001 and for the current underlying Portfolio is April 30, 2001.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is S&P 500 Utilities Sector.<sup>157</sup>

The peer group is Utilities.<sup>153</sup>

Principal risks include: Risk of increase in expenses, derivatives, Merger and Replacement Transition Risk, currency, Convertible securities risk, fixed-income securities, large cap, credit and counterparty, growth stock, manager, equity securities, foreign securities, sector, Emerging Markets Risk, issuer, liquidity, high yield securities, small/mid cap stock and market. For more details, see Risk Disclosures section of this booklet



## Utilities Fund<sup>13,14,91,115</sup>

Investing solely in JHVIT - Utilities Trust (Class 1)

Sub-advised by MFS Investment Management

Ticker Symbol\*: JEUTX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks capital growth and current income.

**Managed in a Style Similar to** ▶ MFS® Utilities Fund

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the relatively high levels of risk and volatility inherent in concentrating investments in one sector of the market
- ▶ You want exposure to a wide range of industries within the broad Utilities sector, such as the electric, gas and telephone industries

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

PPL Corp	3.4%
Exelon Corp	3.3%
NextEra Energy Inc	3.2%
Public Service Enterprise Group Inc	2.5%
Sempra Energy	2.5%
NRG Energy Inc	2.4%
Comcast Corp Class A	2.2%
Dynegy Inc	2.2%
American Electric Power Co Inc	2.1%
Kinder Morgan, Inc.	2.0%

**Totals 25.8% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	61.2%
Non US Stock	30.8%
Preferred	4.5%
Cash	1.9%
Other	1.6%

### Top Country Holdings (as of 6-30-15)α

United States	61.2%
United Kingdom	5.2%
Spain	4.0%
Italy	3.5%
Canada	2.5%
France	2.0%
Portugal	1.9%
Brazil	1.9%
Denmark	1.3%
China	1.3%

### Top Sector Weightings (as of 6-30-15)α

Utilities	51.2%
Communication Services	19.4%
Energy	17.9%
Real Estate	1.5%
Consumer Cyclical	1.4%
Industrials	0.4%
Technology	0.3%

## Key Statistics (as of 6-30-15 unless noted)α

- ▶ **Number of Holdings:** 128
- ▶ **Sharpe Ratio:** 1.33
- ▶ **Beta:** 0.76 (S&P 500 TR USD)
- ▶ **R²:** 44.42 (S&P 500 TR USD)
- ▶ **Turnover (annualized)⁵:** 53.00
- ▶ **Net Assets:** \$452.2 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.92%
  - Net\* 0.92%
- ▶ **Market Cap Value:** 17828.17

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 64
- ▶ **Category:** Utilities
- ▶ **No. of funds:** 3yr 64; 5yr 58; 10yr 55

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	9.96%	9.45%	8.92%
3 year	14.84%	19.24%	17.53%
5 year	15.79%	18.69%	16.81%
10 year	10.36%	9.69%	8.89%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.49%
Cost Per \$1,000	\$14.90

The inception date for the sub-account\* is May 7, 2010 and for the current underlying Portfolio is December 31, 1996.

¥See important notes.

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

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

The Index is Russell Midcap Growth.<sup>141</sup>

The peer group is Mid-Cap Growth.<sup>118</sup>

Principal risks include: growth stock, equity securities, liquidity, Merger and Replacement Transition Risk, issuer, U.S. government securities, growth stock, Value stock, mid cap stock, Risk of increase in expenses, credit and counterparty, foreign securities, market, fixed-income securities, small/mid cap stock and manager. For more details, see Risk Disclosures section of this booklet



# Prudential Jennison Mid Cap Growth Fund<sup>71</sup>

Investing solely in Prudential Jennison Mid Cap Growth Fund (Class Z)

Managed by Jennison Associates LLC

Ticker Symbol\*: **PEGZX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term capital appreciation by investing in the stocks of attractively priced mid-size companies that can generate above-average earnings growth.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the relatively high levels of risk and volatility that typically accompany investments in mid-cap stocks
- ▶ You want exposure to an asset class that has historically provided higher returns than large caps with less volatility than small caps

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

SBA Communications Corp	2.7%
Vantiv Inc	2.2%
Roper Technologies Inc	2.0%
Electronic Arts Inc	1.9%
Red Hat Inc	1.9%
Dollar Tree Stores Inc	1.9%
Crown Castle International Corp	1.8%
Henry Schein Inc	1.7%
Check Point Software Technologies Ltd	1.7%
Hain Celestial Group Inc	1.7%

**Totals 19.5% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	91.7%
Non US Stock	5.1%
Cash	3.1%
Other	0.1%

### Top Country Holdings (as of 6-30-15)α

United States	91.7%
United Kingdom	2.1%
Israel	1.7%
Netherlands	0.8%
China	0.5%

### Top Sector Weightings (as of 6-30-15)α

Industrials	18.3%
Technology	17.6%
Healthcare	14.7%
Consumer Cyclical	14.7%
Consumer Defensive	11.8%
Communication Services	4.5%
Financial Services	3.9%
Energy	3.8%
Basic Materials	3.7%
Real Estate	2.7%
Utilities	1.0%

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 95
- ▶ **Sharpe Ratio:** 1.54
- ▶ **Beta:** 0.96 (Russell Mid Cap Growth TR USD)
- ▶ **R<sup>2</sup>:** 96.30 (Russell Mid Cap Growth TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 42.00
- ▶ **Net Assets:** \$10.2 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.77%
  - Net\* 0.77%
- ▶ **Market Cap Value:** 11624.92

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 657
- ▶ **Category:** Mid-Cap Growth
- ▶ **No. of funds:** 3yr 657; 5yr 585; 10yr 451

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=3; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small

Value Blend Growth

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	5.26%	9.45%	8.92%
3 year	14.08%	19.24%	17.53%
5 year	16.37%	18.69%	16.81%
10 year	8.84%	9.69%	8.89%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.67%
Cost Per \$1,000	\$16.70

The inception date for the sub-account\* is November 7, 2014 and for the current underlying Portfolio is December 29, 2000.

¥See important notes.

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

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

The Index is Russell Midcap Growth.<sup>141</sup>

The peer group is Mid-Cap Growth.<sup>118</sup>

Principal risks include: growth stock, manager, issuer, foreign securities, equity securities, mid cap stock, Merger and Replacement Transition Risk, growth stock, market, Risk of increase in expenses, credit and counterparty, currency and liquidity. For more details, see Risk Disclosures section of this booklet



BAIRD

## Baird MidCap Fund

Investing solely in Baird MidCap Fund (Investor Class)

Managed by Robert W. Baird & Co. Incorporated.

Ticker Symbol\*: **BMDSX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to provide long term growth of capital.

### Why Consider this Fund

▶ You want to invest primarily in high-quality common stocks selected for growth potential

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)<sup>a</sup>

O'Reilly Automotive Inc	2.7%
Stericycle Inc	2.5%
Affiliated Managers Group Inc	2.4%
Wabco Holdings Inc	2.3%
Acuity Brands Inc	2.3%
Alliance Data Systems Corp	2.3%
Mead Johnson Nutrition Co	2.3%
Tractor Supply Co	2.3%
LKQ Corp	2.1%
Church & Dwight Company, Inc.	2.1%

**Totals 23.3% of assets**

#### Top Country Holdings (as of 6-30-15)<sup>a</sup>

United States	92.9%
Ireland	1.5%
India	1.2%
Israel	0.9%

#### Top Sector Weightings (as of 6-30-15)<sup>a</sup>

Consumer Cyclical	23.8%
Technology	21.4%
Industrials	19.1%
Healthcare	11.1%
Consumer Defensive	8.8%
Financial Services	6.5%
Energy	4.3%
Basic Materials	1.4%

#### Asset Allocation (as of 6-30-15)<sup>a</sup>

US Stock	92.9%
Non US Stock	3.6%
Cash	3.6%

### Key Statistics (as of 6-30-15 unless noted<sup>b</sup>)<sup>a</sup>

- ▶ Number of Holdings: 62
- ▶ Sharpe Ratio: 1.37
- ▶ Beta: 1.00 (Russell Mid Cap Growth TR USD)
- ▶ R<sup>2</sup>: 90.71 (Russell Mid Cap Growth TR USD)
- ▶ Turnover (annualized)<sup>5</sup>: 37.30
- ▶ Net Assets: \$1.3 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 1.13%
  - Net\* 1.10%
- ▶ Market Cap Value: 8243.72

### Morningstar Information\*\*\* (as of 6-30-15)<sup>a</sup>

- ▶ Overall Morningstar Rating™: ★★
- ▶ Overall # of Funds in Category: 657
- ▶ Category: Mid-Cap Growth
- ▶ No. of funds: 3yr 657; 5yr 585; 10yr 451

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=2; 5yr=3; 10yr=3. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	13.72%	10.56%	9.39%
3 year	19.07%	17.99%	17.48%
5 year	18.40%	18.59%	16.96%
10 year	8.97%	9.10%	8.26%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.25%
Cost Per \$1,000	\$12.50

The inception date for the sub-account\* is April 27, 2001 and for the current underlying Portfolio is December 1, 2000.

¥See important notes.

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is **Russell 1000 Growth**.<sup>j44</sup>

The peer group is **Large Growth**.<sup>p13</sup>

Principal risks include: asset, short sale, growth stock, foreign securities, Risk of increase in expenses, sector, mortgage-backed and asset-backed securities, credit and counterparty, interest rate, market, Convertible securities risk, large cap, Merger and Replacement Transition Risk, manager, mid cap stock, issuer, liquidity, initial public offerings, fixed-income securities and equity securities. For more details, see Risk Disclosures section of this booklet



JENNISON ASSOCIATES

## Capital Appreciation Fund

13,15,57,73,85,106,115

Investing solely in John Hancock Funds II - Capital Appreciation Fund (Class 1)

Sub-advised by Jennison Associates LLC

Ticker Symbol\*: JICPX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve long-term growth of capital.

### Why Consider this Fund

- ▶ You want potential long-term growth of capital and can accept the inherent risks of investing in stocks
- ▶ You want exposure to large-cap stocks of companies expected to achieve and maintain superior earnings growth

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)α

Apple Inc	5.7%
MasterCard Inc Class A	3.4%
Facebook Inc Class A	3.4%
Amazon.com Inc	3.3%
Visa Inc Class A	2.5%
Nike Inc Class B	2.4%
Biogen Inc	2.3%
Walt Disney Co	2.2%
Bristol-Myers Squibb Company	2.2%
Actavis PLC	2.1%

Totals 29.5% of assets

#### Asset Allocation (as of 6-30-15)α

US Stock	82.6%
Non US Stock	15.4%
Cash	1.2%
Other	0.9%

#### Top Country Holdings (as of 6-30-15)α

United States	82.6%
China	3.8%
United Kingdom	3.1%
Ireland	2.1%
Denmark	1.8%
Spain	1.7%
Italy	1.1%
Canada	1.1%
Netherlands	0.7%

#### Top Sector Weightings (as of 6-30-15)α

Technology	28.3%
Consumer Cyclical	24.6%
Healthcare	19.2%
Financial Services	6.9%
Industrials	6.5%
Consumer Defensive	3.7%
Energy	3.4%
Basic Materials	2.2%
Communication Services	2.0%
Real Estate	1.1%

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 71
- ▶ **Sharpe Ratio:** 1.78
- ▶ **Beta:** 1.07 (Russell 1000 Growth TR USD)
- ▶ **R<sup>2</sup>:** 82.84 (Russell 1000 Growth TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 45.00
- ▶ **Net Assets:** \$2.2 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.78%
  - Net\* 0.78%
- ▶ **Market Cap Value:** 66882.65

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★ ★ ★ ★
- ▶ **Overall # of Funds in Category:** 1533
- ▶ **Category:** Large Growth
- ▶ **No. of funds:** 3yr 1533; 5yr 1317; 10yr 918

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=n/a. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.


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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	6.73%	3.67%	2.94%
3 year	18.50%	19.13%	17.84%
5 year	17.41%	17.73%	16.08%
10 year	10.09%	8.89%	8.03%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.29%
Cost Per \$1,000	\$12.90

The inception date for the sub-account\* is October 2, 1997 and for the current underlying Portfolio is January 1, 1997.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is Russell Midcap Value.<sup>43</sup>

The peer group is Mid-Cap Value.<sup>619</sup>

Principal risks include: foreign securities, market, equity securities, Merger and Replacement Transition Risk, Emerging Markets Risk, credit and counterparty, asset, Convertible securities risk, sector, liquidity, currency, manager, growth stock, issuer, small/mid cap stock and Risk of increase in expenses. For more details, see Risk Disclosures section of this booklet



## Value Fund

13,77,91,106,123

Investing solely in JHVIT - Value Trust (Class 1)

Sub-advised by Invesco Advisers, Inc.

Ticker Symbol\*: JEV LX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve an above-average total return over a market cycle of three to five years.

### Why Consider this Fund

▶ You want potential long-term growth of capital and can accept the relatively high levels of risk and volatility that typically accompany investments in mid-cap stocks

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)α

Johnson Controls Inc	3.2%
Forest City Enterprises Inc Class A	3.1%
Citrix Systems Inc	3.0%
Universal Health Services Inc Class B	3.0%
Healthsouth Corp	2.9%
Fidelity National Financial Inc	2.7%
Level 3 Communications Inc	2.7%
Owens-Corning Inc	2.6%
Ciena Corp	2.6%
ConAgra Foods Inc	2.6%

**Totals 28.4% of assets**

#### Asset Allocation (as of 6-30-15)α

US Stock	95.7%
Non US Stock	3.2%
Cash	1.1%
Other	0.1%

#### Top Country Holdings (as of 6-30-15)α

United States	95.7%
United Kingdom	2.1%
Switzerland	1.2%

#### Top Sector Weightings (as of 6-30-15)α

Financial Services	24.2%
Technology	13.0%
Industrials	12.8%
Healthcare	10.6%
Consumer Cyclical	10.4%
Basic Materials	9.4%
Energy	6.3%
Consumer Defensive	3.5%
Real Estate	3.1%
Utilities	2.9%
Communication Services	2.7%

### Key Statistics (as of 6-30-15 unless noted)β

- ▶ **Number of Holdings:** 53
- ▶ **Sharpe Ratio:** 1.88
- ▶ **Beta:** 0.94 (Russell Mid Cap Value TR USD)
- ▶ **R<sup>2</sup>:** 83.46 (Russell Mid Cap Value TR USD)
- ▶ **Turnover (annualized):** 49.00
- ▶ **Net Assets:** \$674.9 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.82%
  - Net\* 0.82%
- ▶ **Market Cap Value:** 8175.66

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 429
- ▶ **Category:** Mid-Cap Value
- ▶ **No. of funds:** 3yr 429; 5yr 370; 10yr 242

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=5; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	5.42%	6.40%	3.86%
3 year	17.58%	18.60%	17.31%
5 year	16.83%	17.82%	15.90%
10 year	8.81%	9.74%	8.00%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.03%
Cost Per \$1,000	\$10.30

The inception date for the sub-account\* is August 18, 2000 and for the current underlying Portfolio is June 1, 2000.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is S&P Mid Cap 400.<sup>55</sup>

The peer group is Mid-Cap Blend.<sup>57</sup>

Principal risks include: liquidity, currency, foreign securities, Merger and Replacement Transition Risk, growth stock, Risk of increase in expenses, market, equity securities, credit and counterparty, small/mid cap stock, derivatives, issuer and index management. For more details, see Risk Disclosures section of this booklet



## Mid Cap Index Fund

13,48,57,76,82,91,101

Investing solely in JHVIT - Mid Cap Index Trust (Class 1)

Sub-advised by John Hancock Asset Management

Ticker Symbol\*: JECIX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to achieve the approximate aggregate total return of a mid-cap U.S. domestic equity market index.

**Managed in a Style Similar to** ▶ S&P Mid Cap 400

### Why Consider this Fund

- ▶ You want potential long-term growth of capital and can accept the relatively high levels of risk and volatility that typically accompany investments in mid-cap stocks
- ▶ You want to track the performance of the S&P Mid Cap 400 Index, an unmanaged index of 400 stocks of medium-sized U.S. companies

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

S&P Mid 400 Emini Jun15 Xcme	
20150619	4.9%
Church & Dwight Company, Inc.	0.6%
Advance Auto Parts Inc	0.6%
Signet Jewelers Ltd	0.6%
Mettler-Toledo International Inc	0.5%
Jarden Corp	0.5%
Qorvo Inc	0.5%
Federal Realty Investment Trust	0.5%
Westinghouse Air Brake Technologies Corp	0.5%
ResMed Inc	0.5%

**Totals 9.7% of assets**

### Top Country Holdings (as of 6-30-15)α

United States	87.4%
Colombia	0.1%

### Top Sector Weightings (as of 6-30-15)α

Industrials	15.6%
Consumer Cyclical	14.1%
Technology	12.8%
Financial Services	11.5%
Real Estate	8.5%
Healthcare	7.2%
Basic Materials	5.3%
Energy	4.6%
Consumer Defensive	4.0%
Utilities	3.5%
Communication Services	0.4%

### Asset Allocation (as of 6-30-15)α

US Stock	92.4%
Cash	7.6%
Non US Stock	0.1%

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 405
- ▶ **Sharpe Ratio:** 1.69
- ▶ **Beta:** 1.00 (S&P MidCap 400 TR)
- ▶ **R<sup>2</sup>:** 99.99 (S&P MidCap 400 TR)
- ▶ **Turnover (annualized)<sup>5</sup>:** 14.00
- ▶ **Net Assets:** \$914.2 million
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.56%
  - Net\* 0.46%
- ▶ **Market Cap Value:** 4725.30

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 347
- ▶ **Category:** Mid-Cap Blend
- ▶ **No. of funds:** 3yr 347; 5yr 289; 10yr 184

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=3; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Sector

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	2.53%	3.93%	3.96%
3 year	7.21%	8.71%	8.23%
5 year	13.36%	14.29%	13.53%
10 year	6.42%	6.96%	6.32%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.26%
Cost Per \$1,000	\$12.60

The inception date for the sub-account\* is October 2, 1997 and for the current underlying Portfolio is April 30, 1987.

¥See important notes.

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is Morgan Stanley REIT.<sup>B3</sup>

The peer group is Real Estate.<sup>B31</sup>

Principal risks include: turnover, equity securities, issuer, small/mid cap stock, fixed-income securities, sector, liquidity, non-diversification, Convertible securities risk, foreign securities, derivatives, market, credit and counterparty, Risk of increase in expenses, manager and Merger and Replacement Transition Risk. For more details, see Risk Disclosures section of this booklet



Deutsche Asset  
& Wealth Management



## Real Estate Securities Fund<sup>13,14,57,73</sup>

Investing solely in John Hancock Funds II - Real Estate Securities Fund (Class 1)

Sub-advised by Deutsche Asset Management, Inc.

Ticker Symbol\*: **JIREX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks a combination of long-term capital appreciation and satisfactory current income.

**Managed in a Style Similar to** ▶ DWS RREEF Real Estate Securities Fund

### Why Consider this Fund

- ▶ You want potential long-term growth of capital and can accept the relatively high levels of risk and volatility inherent in concentrating in one sector of the market
- ▶ You want exposure to an asset class with low correlation to most major equity and fixed-income market indices, which may provide a substantial diversification benefit over time

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Simon Property Group Inc	10.7%
Equity Residential	7.7%
Prologis Inc	5.4%
Ventas Inc	5.3%
Boston Properties Inc	3.7%
Essex Property Trust Inc	3.5%
Health Care REIT, Inc.	3.5%
Kimco Realty Corp	3.1%
SL Green Realty Corp	3.0%
Spirit Realty Capital Inc	2.4%

**Totals 48.3% of assets**

### Top Country Holdings (as of 6-30-15)α

United States	100.1%
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### Top Sector Weightings (as of 6-30-15)α

Real Estate	100.1%
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### Asset Allocation (as of 6-30-15)α

US Stock	100.1%
Cash	-0.1%

## Key Statistics (as of 6-30-15 unless noted<sup>§</sup>)α

- ▶ **Number of Holdings:** 49
- ▶ **Sharpe Ratio:** 0.60
- ▶ **Beta:** 1.00 (MSCI US REIT NR USD)
- ▶ **R<sup>2</sup>:** 99.41 (MSCI US REIT NR USD)
- ▶ **Turnover (annualized)<sup>§</sup>:** 108.00
- ▶ **Net Assets:** \$543.8 million
- ▶ **Underlying fund expense ratios:**
  - Gross<sup>§</sup> 0.79%
  - Net<sup>\*</sup> 0.79%
- ▶ **Market Cap Value:** 10843.78

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★ ★
- ▶ **Overall # of Funds in Category:** 232
- ▶ **Category:** Real Estate
- ▶ **No. of funds:** 3yr 232; 5yr 199; 10yr 151

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=2; 5yr=3; 10yr=n/a. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

International/Global Equity



Value Blend Growth

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	0.00%	-5.26%	-0.61%
3 year	11.68%	9.44%	11.34%
5 year	9.14%	7.76%	9.85%
10 year	6.70%	5.54%	5.97%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.45%
Cost Per \$1,000	\$14.50

The inception date for the sub-account\* is May 2, 2003 and for the current underlying Portfolio is April 16, 1984.

\*See important notes.

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

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

The Index is MSCI All Country World ex US.<sup>34</sup>

The peer group is Foreign Large Growth.<sup>66</sup>

Principal risks include: Emerging Markets Risk, foreign securities, issuer, liquidity, Risk of increase in expenses, growth stock, market, Merger and Replacement Transition Risk, manager and credit and counterparty. For more details, see Risk Disclosures section of this booklet.



## EuroPacific Growth Fund

40,41,47,61,65,85

Investing solely in EuroPacific Growth Fund® (Class R5)

Managed by American Funds Group

Ticker Symbol\*: **RERFX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term growth of capital.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in international economies and stocks of those economies
- ▶ You are seeking international diversification through equities with a long-term perspective, and can tolerate potentially wide price fluctuations

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)α

Novo Nordisk A/S B	4.3%
Bayer AG	2.6%
SOFTBANK Corp	2.4%
Novartis AG	2.4%
Prudential PLC	1.8%
Barclays PLC	1.7%
HDFC Bank Ltd	1.5%
AIA Group Ltd	1.4%
Murata Mfg Co Ltd	1.4%
Nintendo Co Ltd	1.4%

Totals 20.9% of assets

#### Asset Allocation (as of 6-30-15)α

Non US Stock	86.7%
Cash	9.4%
Other	2.4%
Preferred	1.0%
US Bond	0.4%

#### Top Country Holdings (as of 6-30-15)α

United Kingdom	13.8%
Japan	12.1%
France	8.3%
India	7.2%
China	5.9%
Germany	5.6%
Switzerland	5.5%
Denmark	4.7%
Hong Kong	4.6%
Canada	2.5%

#### Top Sector Weightings (as of 6-30-15)α

Financial Services	18.7%
Technology	13.5%
Healthcare	13.1%
Consumer Cyclical	10.2%
Industrials	7.8%
Communication Services	7.4%
Consumer Defensive	7.1%
Basic Materials	3.1%
Energy	2.2%
Real Estate	1.9%
Utilities	1.9%

### Key Statistics (as of 6-30-15 unless noted)α

- ▶ **Number of Holdings:** 473
- ▶ **Sharpe Ratio:** 1.34
- ▶ **Beta:** 0.84 (MSCI ACWI Ex USA NR USD)
- ▶ **R<sup>2</sup>:** 88.82 (MSCI ACWI Ex USA NR USD)
- ▶ **Turnover (annualized):** 28.00
- ▶ **Net Assets:** \$131.7 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.53%
  - Net\* 0.53%
- ▶ **Market Cap Value:** 36700.13

### Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 296
- ▶ **Category:** Foreign Large Growth
- ▶ **No. of funds:** 3yr 296; 5yr 273; 10yr 174

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=3; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

International/Global Equity



Value Blend Growth

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	7.06%	0.71%	0.60%
3 year	17.60%	13.01%	13.46%
5 year	14.13%	11.93%	12.29%
10 year	7.45%	6.41%	6.65%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.60%
Cost Per \$1,000	\$16.00

The inception date for the sub-account\* is August 18, 2000 and for the current underlying Portfolio is January 1, 1970.

¥See important notes.

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

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

The Index is [MSCI All Country World](#).<sup>173</sup>

The peer group is [World Stock](#).<sup>148</sup>

Principal risks include: growth stock, market, sector, small/mid cap stock, foreign securities, issuer, manager, currency, Merger and Replacement Transition Risk, credit and counterparty, growth stock, liquidity, Risk of increase in expenses, European Union risk, mid cap stock, Emerging Markets Risk and equity securities. For more details, see Risk Disclosures section of this booklet.



# Oppenheimer Global Fund <sup>56,81,130</sup>

Investing solely in Oppenheimer Global Fund (Class A)

Managed by OppenheimerFunds, Inc.

Ticker Symbol\*: **OPPAX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks capital appreciation.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in stocks, both in the United States and abroad
- ▶ You want a portfolio that has the flexibility to invest in growth stocks across all cap ranges worldwide, including companies in the emerging markets

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

McGraw Hill Financial Inc	2.6%
Altera Corp	2.5%
Murata Mfg Co Ltd	2.3%
eBay Inc	2.2%
Aetna Inc	2.2%
Airbus Group SE	2.2%
LM Ericsson Telephone Company B	2.2%
UBS Group AG	2.1%
Walt Disney Co	2.1%
Anthem Inc	2.1%

**Totals 22.5% of assets**

### Asset Allocation (as of 6-30-15)α

Non US Stock	51.8%
US Stock	44.8%
Preferred	1.8%
Cash	1.6%
Other	0.2%

### Top Country Holdings (as of 6-30-15)α

United States	44.8%
Japan	11.4%
Germany	7.0%
France	6.9%
United Kingdom	5.4%
Switzerland	5.2%
Sweden	3.6%
Spain	3.4%
India	3.2%
Brazil	2.3%

### Top Sector Weightings (as of 6-30-15)α

Technology	22.4%
Financial Services	19.2%
Healthcare	18.1%
Consumer Cyclical	12.8%
Industrials	12.2%
Consumer Defensive	5.5%
Basic Materials	2.5%
Energy	1.6%
Communication Services	1.4%
Real Estate	0.9%

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 89
- ▶ **Sharpe Ratio:** 1.73
- ▶ **Beta:** 1.03 (MSCI ACWI NR USD)
- ▶ **R<sup>2</sup>:** 82.25 (MSCI ACWI NR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 11.00
- ▶ **Net Assets:** \$10.7 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 1.13%
  - Net\* 1.13%
- ▶ **Market Cap Value:** 38156.83

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★
- ▶ **Overall # of Funds in Category:** 988
- ▶ **Category:** World Stock
- ▶ **No. of funds:** 3yr 988; 5yr 744; 10yr 388

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=3; 10yr=3. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	4.73%	6.49%	3.42%
3 year	18.15%	17.81%	16.72%
5 year	17.38%	17.08%	15.95%
10 year	8.47%	8.40%	7.91%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.34%
Cost Per \$1,000	\$13.40

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is April 1, 1992.

¥See important notes.

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

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The Index is Russell 2000.<sup>48</sup>

The peer group is Small Blend.<sup>24</sup>

Principal risks include: Merger and Replacement Transition Risk, derivatives, Value stock, liquidity, manager, credit and counterparty, Risk of increase in expenses, issuer, market and small cap stock. For more details, see Risk Disclosures section of this booklet



## DFA US Small Cap Fund<sup>31,54</sup>

Investing solely in DFA U.S. Small Cap Fund

Managed by Dimensional Fund Advisors, Inc. (DFA)

Ticker Symbol\*: **DFSTX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term capital appreciation.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the relatively high levels of risk and volatility that typically accompany investments in small company stocks
- ▶ You want exposure to a highly diversified portfolio of stocks that have both growth and value characteristics

### Holdings, Weightings and Allocations of the underlying fund

#### Top Holdings (as of 6-30-15)□

Qorvo Inc	0.5%
JetBlue Airways Corp	0.4%
Skechers USA Inc	0.3%
Health Net Inc	0.3%
Manhattan Associates Inc	0.3%
Integrated Device Technology Inc	0.3%
Molina Healthcare Inc	0.3%
Office Depot Inc	0.3%
EPAM Systems Inc	0.3%
Synaptics Inc	0.3%

**Totals 3.3% of assets**

#### Asset Allocation (as of 6-30-15)□

US Stock	99.0%
Non US Stock	0.7%
Cash	0.3%

#### Top Country Holdings (as of 6-30-15)□

United States	99.0%
Puerto Rico	0.1%
Marshall Islands	0.1%
China	0.1%
Germany	0.1%
Monaco	0.1%
Luxembourg	0.1%
Netherlands	0.1%

#### Top Sector Weightings (as of 6-30-15)□

Consumer Cyclical	18.2%
Industrials	17.9%
Financial Services	17.5%
Technology	17.1%
Healthcare	9.6%
Basic Materials	6.1%
Consumer Defensive	4.7%
Utilities	3.8%
Energy	3.0%
Communication Services	1.3%
Real Estate	0.6%

### Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)□

- ▶ **Number of Holdings:** 2064
- ▶ **Sharpe Ratio:** 1.48
- ▶ **Beta:** 0.98 (Russell 2000 TR USD)
- ▶ **R<sup>2</sup>:** 97.43 (Russell 2000 TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 9.00
- ▶ **Net Assets:** \$10.7 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.37%
  - Net\* 0.37%
- ▶ **Market Cap Value:** 1673.54

### Morningstar Information\*\*\* (as of 6-30-15)□

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 636
- ▶ **Category:** Small Blend
- ▶ **No. of funds:** 3yr 636; 5yr 575; 10yr 377

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

International/Global Equity



Value Blend Growth

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-11.05%	-5.12%	-6.70%
3 year	4.30%	3.71%	3.79%
5 year	5.60%	3.68%	3.45%
10 year	9.88%	8.11%	7.30%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.79%
Cost Per \$1,000	\$17.90

The inception date for the sub-account\* is November 22, 1996 and for the current underlying Portfolio is November 1, 1996.

¥See important notes.

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

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

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

The Index is MSCI Emerging Markets.<sup>136</sup>

The peer group is Diversified Emerging Markets.<sup>p3</sup>

Principal risks include: Risk of increase in expenses, European Union risk, credit and counterparty, Merger and Replacement Transition Risk, manager, foreign securities, market, liquidity, Emerging Markets Risk, growth stock, issuer, sector and small/mid cap stock. For more details, see Risk Disclosures section of this booklet.



# Oppenheimer Developing Markets Fund<sup>21,56,71</sup>

Investing solely in Oppenheimer Developing Markets Fund (Class Y)

Managed by OppenheimerFunds, Inc.

Ticker Symbol\*: ODVYX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks capital appreciation.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in international stocks
- ▶ You want exposure to companies with high growth potential in emerging markets

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)<sup>a</sup>

Tencent Holdings Ltd	3.2%
Housing Development Finance Corp Ltd	3.2%
Baidu Inc ADR	2.9%
Magnit PJSC	2.9%
Infosys Ltd	2.9%
Taiwan Semiconductor Manufacturing Co Ltd	2.8%
OAQ Novatek GDR	2.3%
JD.com Inc ADR	1.9%
Prada SpA	1.8%
MediaTek Inc	1.8%

Totals 25.7% of assets

### Asset Allocation (as of 6-30-15)<sup>a</sup>

Non US Stock	92.0%
Cash	3.8%
Preferred	2.7%
Other	1.6%

### Top Country Holdings (as of 6-30-15)<sup>a</sup>

China	18.4%
India	14.7%
Mexico	7.2%
Russia	6.9%
Brazil	6.4%
Hong Kong	4.8%
Taiwan	4.5%
United Kingdom	4.2%
France	3.2%
Indonesia	2.6%

### Top Sector Weightings (as of 6-30-15)<sup>a</sup>

Technology	18.8%
Financial Services	18.5%
Consumer Cyclical	17.7%
Consumer Defensive	14.3%
Basic Materials	4.8%
Healthcare	4.7%
Industrials	4.0%
Energy	3.3%
Real Estate	3.0%
Communication Services	2.9%

## Key Statistics (as of 6-30-15 unless noted)<sup>b</sup>

- ▶ Number of Holdings: 118
- ▶ Sharpe Ratio: 0.46
- ▶ Beta: 0.88 (MSCI EM NR USD)
- ▶ R<sup>2</sup>: 81.84 (MSCI EM NR USD)
- ▶ Turnover (annualized)<sup>5</sup>: 26.00
- ▶ Net Assets: \$38.4 billion
- ▶ Underlying fund expense ratios:
  - Gross\* 1.08%
  - Net\* 1.07%
- ▶ Market Cap Value: 21179.63

## Morningstar Information\*\*\* (as of 6-30-15)<sup>a</sup>

- ▶ Overall Morningstar Rating™: ★★★★★
- ▶ Overall # of Funds in Category: 549
- ▶ Category: Diversified Emerging Markets
- ▶ No. of funds: 3yr 549; 5yr 351; 10yr 167

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=4; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	5.40%	6.35%	9.60%
3 year	16.94%	17.66%	17.99%
5 year	17.62%	17.60%	17.65%
10 year	9.16%	9.94%	9.00%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.06%
Cost Per \$1,000	\$10.60

The inception date for the sub-account\* is November 3, 2006 and for the current underlying Portfolio is May 21, 1998.

¥See important notes.

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

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

The Index is CRSP US Small Cap Growth Index.<sup>1141</sup>

The peer group is Small Growth.<sup>125</sup>

Principal risks include: small cap stock, market, Merger and Replacement Transition Risk, issuer, sector, index management, liquidity, Value stock, credit and counterparty and Risk of increase in expenses. For more details, see Risk Disclosures section of this booklet



Vanguard®

# Vanguard Small Cap Growth Index Fund<sup>41,120,125</sup>

Investing solely in Vanguard Small Cap Growth Index Fund (Admiral Class)

Managed by Vanguard Group, Inc.

Ticker Symbol\*: **VSGAX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks to track the performance of a benchmark index that measures the investment return of small-capitalization growth stocks.

### Why Consider this Fund

- ▶ You want a simple, low-cost way to invest in small-capitalization growth stocks
- ▶ You have a long-term investment horizon (at least five years)

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

CDK Global Inc	0.6%
Centene Corp	0.6%
Cooper Companies	0.6%
Alnylam Pharmaceuticals Inc	0.6%
Extra Space Storage Inc	0.6%
ISIS Pharmaceuticals Inc	0.6%
United Therapeutics Corp	0.6%
The Whitewave Foods Company	0.6%
SunEdison Inc	0.5%
Acuity Brands Inc	0.5%

**Totals 5.8% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	98.5%
Non US Stock	1.2%
Cash	0.2%

### Top Country Holdings (as of 6-30-15)α

United States	98.5%
Ireland	0.4%
India	0.3%
United Kingdom	0.3%
Canada	0.2%
Puerto Rico	0.1%

### Top Sector Weightings (as of 6-30-15)α

Technology	20.9%
Healthcare	16.0%
Consumer Cyclical	15.9%
Industrials	15.2%
Real Estate	14.2%
Financial Services	5.8%
Energy	3.6%
Consumer Defensive	3.5%
Basic Materials	3.4%
Utilities	0.9%
Communication Services	0.6%

## Key Statistics (as of 6-30-15 unless noted)α

- ▶ **Number of Holdings:** 742
- ▶ **Sharpe Ratio:** 1.53
- ▶ **Beta:** 1.00 (CRSP US Small Cap Growth TR USD)
- ▶ **R<sup>2</sup>:** 99.61 (CRSP US Small Cap Growth TR USD)
- ▶ **Turnover (annualized)<sup>§</sup>:** 26.00
- ▶ **Net Assets:** \$17.2 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.09%
  - Net\* 0.09%
- ▶ **Market Cap Value:** 3298.63

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★
- ▶ **Overall # of Funds in Category:** 667
- ▶ **Category:** Small Growth
- ▶ **No. of funds:** 3yr 667; 5yr 588; 10yr 413

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=4; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-1.26%	6.40%	3.86%
3 year	19.38%	18.60%	17.31%
5 year	16.44%	17.82%	15.90%
10 year	10.62%	9.74%	8.00%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.78%
Cost Per \$1,000	\$17.80

The inception date for the sub-account\* is November 5, 2010 and for the current underlying Portfolio is September 19, 1994.

¥See important notes.

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

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

The Index is **S&P Mid Cap 400**.<sup>65</sup>

The peer group is **Mid-Cap Blend**.<sup>67</sup>

Principal risks include: issuer, derivatives, market, Convertible securities risk, currency, foreign securities, Value stock, Risk of increase in expenses, liquidity, growth stock, European Union risk, credit and counterparty, Merger and Replacement Transition Risk, growth stock, small/mid cap stock and manager. For more details, see Risk Disclosures section of this booklet



## Aston/Fairpointe Mid Cap Fund<sup>103,104</sup>

Investing solely in Aston/Fairpointe Mid Cap Fund (Class N)

Managed by Fairpointe Capital, LLC

Ticker Symbol\*: **CHTTX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term total return through capital appreciation.

### Why Consider this Fund

- ▶ You want potential long-term growth of capital and can accept the relatively high levels of risk and volatility that typically accompany investments in mid-cap stocks
- ▶ You want a concentrated portfolio of approximately 40 stocks based on a bottom-up fundamental analysis
- ▶ You want exposure to stocks that the portfolio manager deems to be undervalued and that have strong upside potential

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)<sup>a</sup>

Owens-Corning Inc	3.7%
Juniper Networks Inc	3.2%
AGCO Corp	3.2%
Teradata Corp	3.2%
Mattel Inc	2.9%
Cree Inc	2.9%
United States Steel Corp	2.9%
Nuance Communications Inc	2.7%
FMC Technologies Inc	2.7%
FMC Corporation	2.7%

**Totals 30.1% of assets**

### Top Country Holdings (as of 6-30-15)<sup>a</sup>

United States	92.5%
Switzerland	2.2%
Brazil	1.7%

### Top Sector Weightings (as of 6-30-15)<sup>a</sup>

Technology	26.0%
Consumer Cyclical	20.7%
Industrials	13.0%
Basic Materials	12.7%
Financial Services	7.1%
Energy	6.3%
Healthcare	6.3%
Consumer Defensive	4.5%

### Asset Allocation (as of 6-30-15)<sup>a</sup>

US Stock	92.5%
Non US Stock	3.9%
Cash	3.5%

## Key Statistics (as of 6-30-15 unless noted<sup>6</sup>)<sup>a</sup>

- ▶ **Number of Holdings:** 48
- ▶ **Sharpe Ratio:** 1.56
- ▶ **Beta:** 1.08 (S&P MidCap 400 TR)
- ▶ **R<sup>2</sup>:** 80.62 (S&P MidCap 400 TR)
- ▶ **Turnover (annualized)<sup>6</sup>:** 50.25
- ▶ **Net Assets:** \$5.4 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 1.11%
  - Net\* 1.11%
- ▶ **Market Cap Value:** 5484.04

## Morningstar Information\*\*\* (as of 6-30-15)<sup>a</sup>

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 347
- ▶ **Category:** Mid-Cap Blend
- ▶ **No. of funds:** 3yr 347; 5yr 289; 10yr 184

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=3; 10yr=5. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Sector

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	8.77%	9.84%	9.03%
3 year	19.10%	18.36%	17.79%
5 year	16.78%	17.04%	16.25%
10 year	8.84%	9.53%	9.54%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.63%
Cost Per \$1,000	\$16.30

The inception date for the sub-account\* is May 3, 1996 and for the current underlying Portfolio is October 1, 1987.

¥See important notes.

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

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

The Index is Lipper Science & Technology.<sup>130</sup>

The peer group is Technology.<sup>132</sup>

Principal risks include: liquidity, sector, currency, market, Merger and Replacement Transition Risk, foreign securities, Risk of increase in expenses, issuer, credit and counterparty and manager. For more details, see Risk Disclosures section of this booklet



# T. Rowe Price Science & Technology Fund<sup>14,62</sup>

Investing solely in T. Rowe Price Science & Technology Fund (Advisor Class)

Managed by T. Rowe Price Associates, Inc.

Ticker Symbol\*: **PASTX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term growth of capital by investing primarily in the common stocks of companies expected to benefit from the development, advancement and use of science and technology.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the relatively high levels of risk and volatility inherent in concentrating in one sector of the market
- ▶ You want exposure to a wide range of industries within the technology sector, including computers, software, telecommunications, media and information services

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)¤

Amazon.com Inc	8.0%
Priceline Group Inc	5.6%
SOFTBANK Corp	4.2%
Red Hat Inc	3.9%
Microsoft Corp	3.6%
SanDisk Corp	3.4%
Baidu Inc ADR	3.0%
Dell Inc	2.5%
Vipshop Holdings Ltd ADR	2.4%
Salesforce.com Inc	2.4%

**Totals 39.0% of assets**

### Asset Allocation (as of 6-30-15)¤

US Stock	64.3%
Non US Stock	28.2%
Cash	5.9%
Other	1.5%
Preferred	0.3%

### Top Country Holdings (as of 6-30-15)¤

United States	64.3%
China	11.4%
Japan	4.8%
United Kingdom	2.8%
South Korea	2.0%
Singapore	1.7%
Israel	1.6%
Russia	1.1%
Brazil	0.9%
Spain	0.6%

### Top Sector Weightings (as of 6-30-15)¤

Technology	55.1%
Consumer Cyclical	23.3%
Communication Services	8.5%
Healthcare	4.4%
Industrials	1.1%

## Key Statistics (as of 6-30-15 unless noted<sup>§</sup>)¤

- ▶ **Number of Holdings:** 80
- ▶ **Sharpe Ratio:** 1.59
- ▶ **Beta:** 1.05 (S&P 500 TR USD)
- ▶ **R<sup>2</sup>:** 57.99 (S&P 500 TR USD)
- ▶ **Turnover (annualized)<sup>§</sup>:** 80.30
- ▶ **Net Assets:** \$3.9 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 1.06%
  - Net\* 1.06%
- ▶ **Market Cap Value:** 26822.50

## Morningstar Information\*\*\* (as of 6-30-15)¤

- ▶ **Overall Morningstar Rating™:** ★★ ★
- ▶ **Overall # of Funds in Category:** 198
- ▶ **Category:** Technology
- ▶ **No. of funds:** 3yr 198; 5yr 190; 10yr 155

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=4; 5yr=3; 10yr=3. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

International/Global Equity



Value Blend Growth

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-11.42%	-4.22%	-6.08%
3 year	10.60%	11.97%	10.66%
5 year	7.85%	9.54%	8.58%
10 year	4.30%	5.12%	4.20%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.44%
Cost Per \$1,000	\$14.40

The inception date for the sub-account\* is July 30, 1999 and for the current underlying Portfolio is August 2, 1999.

¥See important notes.

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

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

The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

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

The Index is MSCI EAFE.<sup>15</sup>

The peer group is Foreign Large Value.<sup>17</sup>

Principal risks include: sector, Emerging Markets Risk, derivatives, manager, issuer, Risk of increase in expenses, large cap, fixed-income securities, credit and counterparty, Merger and Replacement Transition Risk, foreign securities, liquidity, small/mid cap stock, equity securities, currency and market. For more details, see Risk Disclosures section of this booklet



# International Value Fund<sup>9,13,23,47,73</sup>

Investing solely in John Hancock Funds II - International Value Fund (Class 1)

Sub-advised by Franklin Templeton

Ticker Symbol\*: JIVIX

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term growth of capital.

### Why Consider this Fund

- ▶ You want potential long-term growth of capital and can accept the inherent risks of investing in international stocks
- ▶ You want exposure to value stocks of companies located outside the United States

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Samsung Electronics Co Ltd GDR	3.7%
KB Financial Group Inc ADR	2.2%
Hana Financial Group Inc	2.2%
BNP Paribas	2.1%
Credit Suisse Group	1.9%
Roche Holding AG Dividend Right Cert.	1.9%
AXA SA	1.9%
Tesco PLC	1.6%
GCL-Poly Energy Holdings Ltd	1.6%
Teva Pharmaceutical Industries Ltd ADR	1.6%

**Totals 20.7% of assets**

### Asset Allocation (as of 6-30-15)α

Non US Stock	89.8%
Cash	6.4%
US Stock	2.8%
Other	0.9%
US Bond	0.2%

### Top Country Holdings (as of 6-30-15)α

United Kingdom	15.5%
South Korea	12.4%
France	9.8%
China	9.7%
Germany	7.6%
Switzerland	6.7%
Japan	5.9%
Netherlands	4.6%
Canada	4.5%
Italy	2.9%

### Top Sector Weightings (as of 6-30-15)α

Financial Services	27.2%
Energy	15.6%
Healthcare	13.3%
Consumer Cyclical	9.1%
Basic Materials	6.2%
Industrials	6.2%
Technology	6.0%
Communication Services	5.9%
Consumer Defensive	1.6%
Utilities	1.6%

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 107
- ▶ **Sharpe Ratio:** 0.88
- ▶ **Beta:** 1.10 (MSCI EAFE GR USD)
- ▶ **R<sup>2</sup>:** 81.75 (MSCI EAFE GR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 28.00
- ▶ **Net Assets:** \$1.9 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.97%
  - Net\* 0.97%
- ▶ **Market Cap Value:** 20775.66

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★
- ▶ **Overall # of Funds in Category:** 289
- ▶ **Category:** Foreign Large Value
- ▶ **No. of funds:** 3yr 289; 5yr 254; 10yr 124

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=2; 10yr=n/a. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Sector

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-27.49%	-25.40%	-29.34%
3 year	1.09%	1.23%	3.07%
5 year	4.74%	5.30%	4.40%
10 year	4.68%	4.41%	4.21%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.28%
Cost Per \$1,000	\$12.80

The inception date for the sub-account\* is September 6, 2002 and for the current underlying Portfolio is May 23, 1984.

¥See important notes.

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

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The Index is MSCI ACWI/Energy.<sup>1105</sup>

The peer group is Equity Energy.<sup>1152</sup>

Principal risks include: manager, Risk of increase in expenses, Merger and Replacement Transition Risk, European Union risk, currency, market, liquidity, credit and counterparty, issuer, foreign securities, sector and equity securities. For more details, see Risk Disclosures section of this booklet



Vanguard®

# Vanguard Energy Fund<sup>14, 120, 125</sup>

Investing solely in Vanguard Energy Fund (Admiral Class)

Managed by Vanguard Group, Inc.

Ticker Symbol\*: **VGELX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term capital appreciation.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the relatively high levels of risk and volatility inherent in concentrating in one sector of the market
- ▶ You want exposure to both domestic and international stocks in the energy sector

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Exxon Mobil Corporation	8.7%
Chevron Corp	5.0%
Pioneer Natural Resources Co	4.8%
Royal Dutch Shell PLC ADR Class A	4.5%
Schlumberger NV	3.4%
EOG Resources Inc	3.3%
Total SA ADR	2.6%
Anadarko Petroleum Corp	2.2%
Halliburton Co	2.1%
BP PLC ADR	2.0%

**Totals 38.6% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	64.5%
Non US Stock	30.2%
Cash	3.8%
Other	1.4%

### Top Country Holdings (as of 6-30-15)α

United States	64.6%
United Kingdom	8.4%
Canada	8.2%
France	2.7%
Russia	2.4%
Italy	1.6%
India	1.3%
Portugal	1.2%
Australia	1.1%
Japan	1.0%

### Top Sector Weightings (as of 6-30-15)α

Energy	93.4%
Utilities	0.7%
Basic Materials	0.5%
Industrials	0.2%

## Key Statistics (as of 6-30-15 unless noted<sup>§</sup>)α

- ▶ **Number of Holdings:** 152
- ▶ **Sharpe Ratio:** 0.20
- ▶ **Beta:** 1.00 (MSCI ACWI/Energy GR USD)
- ▶ **R<sup>2</sup>:** 97.94 (MSCI ACWI/Energy GR USD)
- ▶ **Turnover (annualized)<sup>§</sup>:** 31.00
- ▶ **Net Assets:** \$10.3 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 0.31%
  - Net\* 0.31%
- ▶ **Market Cap Value:** 34875.67

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★★★★★
- ▶ **Overall # of Funds in Category:** 83
- ▶ **Category:** Equity Energy
- ▶ **No. of funds:** 3yr 83; 5yr 77; 10yr 50

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=4; 10yr=4. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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



## Sub-Account Details

### Risk/Return Category<sup>6A</sup>

Aggressive Growth

Low  High

### Asset Class/Investment Style

Domestic Equity

			Large
			Medium
			Small
Value	Blend	Growth	

### Performance\*\*

Returns (as of 6-30-15)

	Fund	Index	Peer Group
1 year	-3.51%	6.49%	0.51%
3 year	15.75%	17.81%	16.06%
5 year	14.81%	17.08%	14.76%
10 year	7.81%	8.40%	7.58%

### Expense Ratio (as of 6-30-15)\*\*\*\*

Expense Ratio****	1.92%
Cost Per \$1,000	\$19.20

The inception date for the sub-account\* is May 14, 2004 and for the current underlying Portfolio is November 1, 1996.

¥See important notes.

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

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

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

The Index is **Russell 2000**.<sup>48</sup>

The peer group is **Small Value**.<sup>26</sup>

Principal risks include: Risk of increase in expenses, credit and counterparty, liquidity, manager, market, small cap stock, Merger and Replacement Transition Risk, issuer and sector. For more details, see Risk Disclosures section of this booklet



TheRoyceFunds

## Royce Opportunity Fund<sup>36</sup>

Investing solely in Royce Opportunity Fund (Investment Class)

Managed by Royce & Associates, LLC

Ticker Symbol\*: **RYPNX**

## Fund Highlights

**Investment Objective and Policies** ▶ Seeks long-term growth of capital.

### Why Consider this Fund

- ▶ You want long-term growth of capital and can accept the inherent risks of investing in small- and micro-cap stocks
- ▶ You want exposure to both small- and micro-cap companies that may have interrupted earnings patterns, unrecognized asset values or undervalued growth

## Holdings, Weightings and Allocations of the underlying fund

### Top Holdings (as of 6-30-15)α

Microsemi Corp	1.0%
Commercial Metals Co	0.9%
Mueller Industries Inc	0.9%
Sanmina Corp	0.8%
Interface Inc	0.8%
Astec Industries Inc	0.8%
Advanced Energy Industries Inc	0.8%
Kaiser Aluminum Corp	0.8%
Mueller Water Products, Inc.	0.8%
General Cable Corp	0.7%

**Totals 8.3% of assets**

### Asset Allocation (as of 6-30-15)α

US Stock	88.9%
Cash	6.9%
Non US Stock	3.1%
Other	1.0%

### Top Country Holdings (as of 6-30-15)α

United States	88.9%
Canada	0.8%
Marshall Islands	0.6%
Singapore	0.6%
Greece	0.6%
China	0.5%
Pitcairn	0.1%

### Top Sector Weightings (as of 6-30-15)α

Technology	31.2%
Consumer Cyclical	16.6%
Industrials	15.1%
Basic Materials	10.8%
Financial Services	9.4%
Healthcare	3.1%
Consumer Defensive	1.9%
Real Estate	1.5%
Communication Services	1.2%
Energy	1.2%
Utilities	0.1%

## Key Statistics (as of 6-30-15 unless noted<sup>5</sup>)α

- ▶ **Number of Holdings:** 281
- ▶ **Sharpe Ratio:** 1.20
- ▶ **Beta:** 1.02 (Russell 2000 TR USD)
- ▶ **R<sup>2</sup>:** 90.01 (Russell 2000 TR USD)
- ▶ **Turnover (annualized)<sup>5</sup>:** 36.00
- ▶ **Net Assets:** \$2.0 billion
- ▶ **Underlying fund expense ratios:**
  - Gross\* 1.15%
  - Net\* 1.15%
- ▶ **Market Cap Value:** 761.07

## Morningstar Information\*\*\* (as of 6-30-15)α

- ▶ **Overall Morningstar Rating™:** ★ ★ ★
- ▶ **Overall # of Funds in Category:** 365
- ▶ **Category:** Small Value
- ▶ **No. of funds:** 3yr 365; 5yr 305; 10yr 198

Overall underlying Fund Rating is based on the 3-, 5- and 10-year Morningstar Risk-Adjusted Returns and accounts for variations in a fund's monthly performance, which were as follows: 3yr=3; 5yr=3; 10yr=2. Rating includes effects of sales charges, loads and redemption fees. See Important Notes for the rating criteria.

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

# ¥ Important notes

**Please call 1-800-395-1113 to obtain John Hancock USA group annuity investment option Fund Sheets for its sub-accounts and prospectuses for the sub-accounts' underlying mutual fund, collective trusts or ETFs, which are available upon request. The prospectuses for the sub-accounts' underlying mutual fund, collective trusts or ETFs contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying mutual fund or collective trusts which should be carefully considered before investing.**

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

Allocating assets to only one or a small number of the investment options generally should not be considered a balanced investment strategy. In particular, allocating assets to a small number of options concentrated in particular business or market sectors will subject your account or contract to increased risk and volatility. Examples of business or market sectors where this risk may be particularly high include: a) technology-related businesses, b) small-cap securities and c) foreign securities. John Hancock USA does not provide advice regarding appropriate investment allocations. Contact your financial representative for more details.

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

## Information Concerning John Hancock's Short-Term Trading Policy

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

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

Recognizing that there may be extreme market or other circumstances requiring a participant to make a further change, John Hancock will allow a participant to move **100% of their assets to a Money Market or Stable Value Fund (as available under the contract after the exchange limit has been reached; no subsequent exchanges may be made for 30 days)**. Once the 30-day hold has expired, participants can trade again in accordance with the above guidelines.

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

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

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

Participants can read about the short-term trading policy at [www.jhpnensions.com](http://www.jhpnensions.com) or [www.jhnyptions.com](http://www.jhnyptions.com) (for plans domiciled in New York) under the "modify your account - change account" feature. Redemption fees or market value adjustments associated with exchanges from particular investment options are described on applicable fund sheets, which are available online. For more information or to order prospectuses for the underlying investments, call 1-800-395-1113 and speak to a client account representative.

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

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

The underlying mutual fund, collective trust, or ETF has the right to restrict trade activity without prior notice if a participant's trading is determined to be in excess of their exchange policy, as stated in the prospectus or offering memorandum.

⊞The information shown is based on the most recent available information for the underlying mutual fund, collective trust, or ETF (collectively referred to as underlying fund) as of the date of printing and is subject to change. Listed holdings do not represent all of the holdings in the underlying fund.

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

The placement of investment options within style boxes and according to potential risk/return shows John Hancock USA's assessment of those options relative to one another and should not be used to compare these investment options available outside of John Hancock USA. John Hancock USA determines peer groups and indexes based on what it believes is the closest match in terms of investment objectives, policies, processes and style. Each investment option's peer group, index and style box and risk/return spectrum placement is subject to change.

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

3A. Date sub-account or Guaranteed Interest Account first available under group annuity contract. This class was introduced April 27, 1999. If the sub-account inception date is after April 27, 1999, then the class introduction date is the same as the sub-account inception date.

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

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

**\*\*\*\* Expense Ratio (ER),**

This material shows expenses for a specific unit class for investment options available under a John Hancock group annuity contract. The Expense Ratio ("ER") shown represents the total annual operating expenses for the investment options made available by John Hancock. It is made up of John Hancock's (i) "Revenue from Sub-account", and (ii) the expenses of the underlying fund (based on expense ratios reported in the most recent prospectuses available as of the date of printing; "FER"). In the case where an underlying fund has either waived a portion of, or capped, its fees, the FER used to determine the ER of the sub-account that invests in the underlying fund is the net expense ratio of the underlying fund. "Underlying fund" or "fund" refers to the underlying mutual fund, collective trust, or exchanged traded fund ("ETF") in which the investment option invests.

The FER is determined by the underlying fund and is subject to fluctuation. Any change in the FER of an underlying fund will affect the Expense Ratio of the investment option which invests in the underlying fund.

The ER applies daily at a rate equivalent to the annual rate shown, and may vary to reflect changes in the expenses of an underlying fund and other factors.

For Expense Ratio information current as of the most recent quarter end, please refer to the monthly "Return and Fees" listing available from John Hancock upon request. For more information, please contact your financial representative.

**\*\* Performance of the sub-account**

The performance data for a sub-account for any period prior to the sub-account Inception Date is hypothetical based on the performance of the underlying portfolio. \*This class was introduced April 27, 1999. If the sub-account inception date is after April 27, 1999, then the class introduction date is the same as the sub-account inception date. Returns for any period greater than one year are annualized. Performance data reflects changes in the prices of a sub-account's investments (including the shares of an underlying fund), reinvestment of dividends and capital gains and deductions for the Expense Ratio (ER). Performance does not reflect any applicable contract-level or certain participant-level charges, fees for guaranteed benefits if elected by participant under the group annuity contract or redemption fees imposed by the underlying Portfolio. These charges, if included, would otherwise reduce the total return for a

participant's account. All performance calculations shown have been prepared solely by John Hancock USA. The underlying fund company has not reviewed the sub-account's performance.

**6A. Risk/Return Category:**

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**\*\*\* Morningstar Portfolio Ratings**

With respect to the Funds that display a Morningstar rating. All Morningstar data is © 2014 by Morningstar, Inc. All rights reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information. All funds with at least a 3-year history are ranked in a "category". Morningstar categories are assigned to a fund based on the underlying securities a fund has invested in over the past 3 years. The funds with scores in the top 10% of each category receive 5 stars (highest); the next 22.5%, 4 stars (above average); the next 35%, 3 stars (average); the next 22.5%, 2 stars (below average); and the bottom 10%, 1 star (lowest). Past performance is no guarantee of future results. Morningstar ratings are applicable to the underlying portfolio only and reflect historical risk-adjusted performance as of the most recent calendar quarter-end. Although gathered from reliable sources, the information is not represented or warranted by Morningstar to be accurate, correct, complete or timely.

\*The amounts displayed below represent the gross and net expense ratios of the underlying fund in which the sub-account invests. Where the figures are different, the underlying fund has either waived a portion of, or capped its fees, and the result of such fee waiver or cap is reflected in the net expense ratio. The waiver or cap is subject to expiration, in which case the Expense Ratio and performance of the sub account may be impacted. Refer to the prospectus of the underlying fund for details.

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

5. The underlying fund changed its name effective on or about May 5, 2008. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about May 5, 2008 to more accurately reflect the name of the underlying fund.

8. The underlying fund changed its name effective on or about May 10, 2010. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about May 10, 2010 to more accurately reflect the name of the underlying fund.

9. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 30, 2007. Contact your John Hancock representative for more information

10. The underlying fund changed its sub-advisor on December 15, 2010 from Declaration Management & Research LLC/MFC Global Investment Management (U.S.A.) Limited to Declaration Management & Research LLC/John Hancock Asset Management, a division of Manulife Asset Management (North America) Limited.

13. The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees

## ¥ Important notes CONTINUED

which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

14. The underlying fund concentrates its investments in a sector of the market. A portfolio of this type may be riskier or more volatile in price than one that invests in more market sectors.

15. Account balance reported for this Fund may include assets transferred from another Fund, which will be permanently closed on or about April 26, 2010. Consult your John Hancock representative for more information.

21. This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective May 17, 2004. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio.

23. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 29, 2007. Consult your John Hancock representative for more information.

31. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 27, 2009. Contact your John Hancock representative for more information.

36. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about May 10, 2010. Performance shown for periods prior to that date is based on the performance of the current share class.

40. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about July 28, 2008. Performance shown for periods prior to that date is based on the performance of the current share class.

41. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 27, 2008. Contact your John Hancock representative for more information.

42. The name of this sub-account changed effective on or about November 9, 2009 to more accurately reflect the name of the underlying fund. Contact your John Hancock representative for more information.

45. The portfolio concentrates its investments in high yield/high risk fixed income securities, also known as junk bonds, which carry a much greater risk of default and tend to be more volatile than higher rated bonds.

46. The name of this sub-account changed effective on or about August 2, 2010.

47. Account balance reported may include assets transferred from another sub-account which was permanently closed between April 22, 2005 and May 7, 2005.

48. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 25, 2010. Please contact your John Hancock representative for more information.

50. Account balance reported may include assets transferred from another Fund which was permanently closed between April 25, 2004 and May 1, 2004.

54. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 18, 2011. Please contact your John Hancock representative for more information.

55. This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective on or about May 7, 2005. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio.

56. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or

about November 10, 2008. Performance shown for periods prior to that date is based on the performance of the current share class.

57. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 26, 2009. Contact your John Hancock representative for more information.

61. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about November 9, 2009. Performance shown for periods prior to that date is based on the performance of the current share class.

62. Account balance reported may include assets transferred from another Fund which was permanently closed between April 25, 2003 and May 5, 2003.

65. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about June 1, 2009. Performance shown for periods prior to that date is based on the performance of the current share class.

68. This sub-account previously invested in another underlying portfolio. It began investing in the current underlying portfolio effective October 14, 2005. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio. Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the subaccount charge that was in effect prior to October 14, 2005, which was .20% higher than the current sub-account charge.

69. The sub-adviser or manager changed its name on or about May 6, 2006. Performance shown for periods prior to that date reflect the results under the sub-adviser's former name.

71. Only available under certain limited circumstances. Consult your John Hancock representative for more information.

73. This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective October 14, 2005.

76. None of the Index Funds or the underlying John Hancock Trust Index Trusts or ETFs are sponsored, endorsed, managed, advised, sold or promoted by any of the respective companies that sponsor the broad-based securities market index, and none of these companies make any representation regarding the advisability of investing in the Index Fund.

77. The underlying fund changed its sub-advisor on November 8, 2010 from Van Kampen Investments to Invesco Advisers, Inc.

81. This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective February 9, 2004. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio.

82. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 30, 2006. Contact your John Hancock representative for more information.

83. This investment option is deemed a "Competing" investment option with the John Hancock Stable Value Fund and may not be available. An investment in this portfolio is not insured or guaranteed by The Federal Deposit Insurance Corporation or any other government agency. Although the underlying portfolio seeks to preserve the value of an investment, it is possible to lose money by investing in this portfolio.

85. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 22, 2006. Contact your John Hancock representative for more information.

91. The underlying John Hancock Variable Insurance Trust portfolio is not a retail mutual fund and is only available under variable annuity contracts, variable life policies or through participation in tax qualified retirement plans. Although the



portfolios' investment adviser or sub-advisers may manage retail mutual funds with similar names and investment objectives, no representation is made, and no assurance is given, that any portfolio's investment results will be comparable to the investment results of any other fund, including other funds with the same investment adviser or sub-adviser. Past performance is no guarantee of future results.

98. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about May 9, 2011. Performance shown for periods prior to that date is based on the performance of the current share class.

101. The underlying fund changed its sub-advisor on December 15, 2010 from MFC Global Investment Management (U.S.A.) Limited to John Hancock Asset Management, a division of Manulife Asset Management (North America) Limited.

102. This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective November 7, 2011. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio. The name of this sub-account changed effective on or about November 7, 2011 to more accurately reflect the name of the underlying fund.

103. The underlying fund changed its name effective on or about November 7, 2011. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about November 7, 2011 to more accurately reflect the name of the underlying fund.

104. The underlying fund's manager changed its name from Optimum Investment Advisors, LLC to Fairpointe Capital, LLC. on or about November 7, 2011. Contact your John Hancock representative for more information.

106. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 23, 2012. Please contact your John Hancock representative for more information.

110. This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective November 2, 2012. Performance shown for periods prior to that date is based on the performance of the previous underlying portfolio/sub-account. The name of this sub-account may change effective on or about November 2, 2012 to more accurately reflect the name of the underlying fund.

111. The underlying fund changed its name effective on or about November 2, 2012. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about November 2, 2012 to more accurately reflect the name of the underlying fund.

114. If John Hancock has been provided with your date of birth and no investment instructions at the time of enrollment, then, on the date of your enrollment, you will be default enrolled into a Target Date (Lifecycle Portfolio) based on your year of birth and a retirement age of 67, and subject to the Target Date then in existence.

115. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 22, 2013. Please contact your John Hancock representative for more information.

117. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 21, 2013. Please contact your John Hancock representative for more information.

120. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about November 8, 2013. Performance shown for periods prior to that date is based on the performance of the current share class.

123. Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 11, 2014. Please contact your John Hancock representative for more information.

125. The name of this sub-account changed effective on or about May 3, 2014

130. This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about November 8, 2014. Performance shown for periods prior to that date is based on the performance of the old share class.

132. The name of this sub-account changed effective on or about November 8, 2014.

142. This investment option is deemed a 'Competing' investment option with the Reliance Trust New York Life Anchor Account and is not available. For further details, please refer to the Offering Statement and Declaration of Trust. Contact your John Hancock representative if you wish to obtain a copy.

143. This investment option is deemed a 'Competing' investment option with the Federated Capital Preservation Fund and is not available. For further details, please refer to the Offering Circular and Declaration of Trust. Contact your John Hancock representative if you wish to obtain a copy.

#### **Index Performance:**

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

i2. Citigroup High Yield Index: Measures the performance of below-investment grade debt issued by corporations domiciled in the U.S or Canada.

i3. Citigroup U.S. Domestic 3-Month T-Bill Index: An unmanaged, market capitalization weighted, index of 3-month Treasury bills

i8. 60% S&P 500/40% Barcap Agg Bond Index: A combination of 60% S&P 500/40% Barcap Agg Bond Index

i15. Barclays Capital U.S. Aggregate Bond Index: Made up of bonds from the Treasury, Government-Related, Corporate, Mortgage-Backed Security, Asset-Backed Security and Commercial Mortgage-Backed Security sectors. These include securities that are of investment-grade quality or better and have at least one year to maturity.

i30. Lipper Science & Technology Index: Equally weighted index of the largest thirty funds within the science and technology fund classification as defined by Lipper Inc. The index is rebalanced quarterly.

i33. Morgan Stanley REIT: A capitalization-weighted benchmark index of the most actively traded real estate investment trusts (REITs), designed to measure real estate equity performance.

i34. MSCI All Country World ex US: Free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets.

i35. MSCI EAFE Index: Free float-adjusted market capitalization index that is designed to measure developed market equity performance, excluding the US & Canada.

i36. MSCI Emerging Markets Index: Free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

i40. MSCI World Index: Free float-adjusted market capitalization index that is designed to measure global developed market equity performance.

i41. Russell Midcap Growth Index: Offers investors access to the mid-cap growth segment of the U.S. equity universe and is constructed to provide a comprehensive and unbiased barometer of the mid-cap growth market

i43. Russell Midcap Value Index: Offers investors access to the mid-cap value segment of the U.S. equity universe and is constructed to provide a comprehensive and unbiased barometer of the mid-cap value market.

i44. Russell 1000 Growth Index: Offers investors access to the large-cap growth segment of the U.S. equity universe and is constructed to provide a comprehensive and unbiased barometer of the large-cap growth market.

i46. Russell 1000 Value Index: Offers investors access to the large-cap value segment of the U.S. equity universe and is constructed to provide a comprehensive and unbiased barometer of the large-cap value market.

i48. Russell 2000 Index: Offers investors access to the small-cap segment of the U.S. equity universe and is constructed to provide a comprehensive and unbiased small-cap barometer. Completely reconstituted annually to ensure larger stocks do not distort the performance and characteristics of the true small-cap opportunity set.

i55. S&P Mid Cap 400 Index: A market capitalization weighted composed of 400 companies with market cap in the range of US\$1 billion to US\$4 billion

i57. Standard & Poor's 500 Utilities Index, is a market capitalization-weighted index designed to measure the utilities sector, including those companies considered electric, gas or water utilities, or companies that operate as independent producers and/or distributors of power.

i58. S&P 500 Index: A market capitalization-weighted index, composed of 500 widely-held common stocks. This index is designed to be a leading indicator of U.S. equities and is meant to reflect the risk/return characteristics of the large-cap universe.

i73. MSCI All Country World Index: Free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets, consisting of 48 developed and emerging market country indexes.

i86. Barclays Capital 1-5 yr Government Index: The index includes fixed income securities issued by the U.S. Treasury (not including inflation-protected securities) and U.S. government agencies and instrumentalities, as well as corporate or dollar-denominated foreign debt guaranteed by the U.S. government, all with maturities between 1 and 5 years.

i105. MSCI ACWI/Energy Index: The MSCI ACWI/Energy Index is a free-float weighted equity index that aims to focus on companies in the energy industry.

i107. JPMorgan GBI Global Bond FX NY Index (Unhedged): The JPMorgan GBI Global Bond Index (Unhedged) is an unmanaged market index representative of the total return performance in U.S. dollars on an unhedged basis of major world bond markets.

i141. The CRSP U.S. Small Cap Growth Index: Securities are assigned to a size-based market cap index, they are then made eligible for assignment to a value or growth index using CRSP's multifactor model.

i144. The CRSP U.S. Large Cap Value Index: Securities are assigned to a size-based market cap index, they are then made eligible for assignment to a value or growth index using CRSP's multifactor model.

i147. 70% Russell 3000/ 30% MSCI ACWI ex-US Index: A combination of 70% Russell 3000/ 30% MSCI ACWI ex-US Index

i148. 56% Russell 3000/ 24% MSCI ACWI ex-US/ 16% BarCap Agg Bond/ 4% BofAML HY Master II Index: A combination of 56% Russell 3000/ 24% MSCI ACWI ex-US/ 16% BarCap Agg Bond/ 4% BofAML HY Master II

i149. 42% Russell 3000/ 18% MSCI ACWI ex-US/ 32% BarCap Agg Bond/ 8% BofAML HY Master II Index: A combination of 42% Russell 3000/ 18% MSCI ACWI ex-US/ 32% BarCap Agg Bond/ 8% BofAML HY Master II Index

i150. 28% Russell 3000/ 12% MSCI ACWI ex-US/ 48% BarCap Agg Bond/ 12% BofAML HY Master II Index: A combination of 28% Russell 3000/ 12% MSCI ACWI ex-US/ 48% BarCap Agg Bond/ 12% BofAML HY Master II Index

i151. 14% Russell 3000/ 6% MSCI ACWI ex-US/ 64% BarCap Agg Bond/ 16% BofAML HY Master II Index: A combination of 14% Russell 3000/ 6% MSCI ACWI ex-US/ 64% BarCap Agg Bond/ 16% BofAML HY Master II Index

i160. 66.5% Russell 3000/ 28.5% MSCI ACWI ex-US/ 4% BarCap Agg Bond/ 1% BofAML HY Master II Index: A combination of 66.5% Russell 3000/ 28.5% MSCI ACWI ex-US/ 4% BarCap Agg Bond/ 1% BofAML HY Master II Index

i161. 60.20% Russell 3000/ 25.80% MSCI ACWI ex-US/ 11.20% BarCap Agg Bond/ 2.80% BofAML HY Master II Index: A combination of 60.20% Russell 3000/ 25.80% MSCI ACWI ex-US/ 11.20% BarCap Agg Bond/ 2.80% BofAML HY Master II Index

i162. 53.90% Russell 3000/ 23.10% MSCI ACWI ex-US/ 18.40% BarCap Agg Bond/ 4.60% BofAML HY Master II Index: A combination of 53.90% Russell 3000/ 23.10% MSCI ACWI ex-US/ 18.40% BarCap Agg Bond/ 4.60% BofAML HY Master II Index

i163. 45.50% Russell 3000/ 19.50% MSCI ACWI ex-US/ 28% BarCap Agg Bond/ 7% BofAML HY Master II Index: 45.50% Russell 3000/ 19.50% MSCI ACWI ex-US/ 28% BarCap Agg Bond/ 7% BofAML HY Master II Index

i164. 37.80% Russell 3000/ 16.20% MSCI ACWI ex-US/ 36.80% BarCap Agg Bond/ 9.20% BofAML HY Master II Index: 37.80% Russell 3000/ 16.20% MSCI ACWI ex-US/ 36.80% BarCap Agg Bond/ 9.20% BofAML HY Master II Index

i165. 31.5% Russell 3000/ 13.5% MSCI ACWI ex-US/ 44% BarCap Agg Bond/ 11% BofAML HY Master II Index: 31.5% Russell 3000/ 13.5% MSCI ACWI ex-US/ 44% BarCap Agg Bond/ 11% BofAML HY Master II Index

i172. 65.10% Russell 3000/ 27.90% MSCI ACWI ex-US/ 5.60% BarCap Agg Bond/ 1.40% BofAML HY Master II Index: A combination of 65.10% Russell 3000/ 27.90% MSCI ACWI ex-US/ 5.60% BarCap Agg Bond/ 1.40% BofAML HY Master II Index

## Peer Group Performance:

With respect to the Funds that display a Peer Group Performance. Source: Morningstar Direct for Mutual Funds, as of the most recent month end. Morningstar data is © 2015 by Morningstar, Inc. All rights reserved. Although gathered from reliable sources, the information is not represented or warranted by Morningstar to be accurate, correct, complete or timely. Peer groups are unmanaged and cannot be invested in directly.

p2. Conservative Allocation: Conservative-allocation portfolios seek to provide both capital appreciation and income by investing in three major areas: stocks, bonds, and cash. These portfolios tend to hold smaller positions in stocks than moderate-allocation portfolios. These portfolios typically have 20% to 50% of assets in equities and 50% to 80% of assets in fixed income and cash.

p3. Diversified Emerging Markets: Diversified emerging-markets portfolios tend to divide their assets among 20 or more nations, although they tend to focus on the emerging markets of Asia and Latin America rather than on those of the Middle East, Africa, or Europe. These portfolios invest at least 70% of total assets in equities and invest at least 50% of stock assets in emerging markets.

p6. Foreign Large Growth: Foreign large-growth portfolios focus on high-priced growth stocks, mainly outside of the United States. Most of these portfolios divide their assets among a dozen or more developed markets, including Japan, Britain, France, and Germany. These portfolios primarily invest in stocks that have market caps in the top 70% of each economically integrated market (such as Europe or Asia ex-Japan). Growth is defined based on fast growth (high growth rates for

earnings, sales, book value, and cash flow) and high valuations (high price ratios and low dividend yields). These portfolios typically will have less than 20% of assets invested in U.S. stocks.

p7. Foreign Large Value: Foreign large-value portfolios invest mainly in big international stocks that are less expensive or growing more slowly than other large-cap stocks. Most of these portfolios divide their assets among a dozen or more developed markets, including Japan, Britain, France, and Germany. These portfolios primarily invest in stocks that have market caps in the top 70% of each economically integrated market (such as Europe or Asia ex-Japan). Value is defined based on low valuations (low price ratios and high dividend yields) and slow growth (low growth rates for earnings, sales, book value, and cash flow). These portfolios typically will have less than 20% of assets invested in U.S. stocks.

p9. High-Yield Bond: High-yield bond portfolios concentrate on lower-quality bonds, which are riskier than those of higher-quality companies. These portfolios generally offer higher yields than other types of portfolios, but they are also more vulnerable to economic and credit risk. These portfolios primarily invest in U.S. high-income debt securities where at least 65% or more of bond assets are not rated or are rated by a major agency such as Standard & Poor's or Moody's at the level of BB (considered speculative for taxable bonds) and below.

p11. Intermediate-Term Bond: Intermediate-term bond portfolios invest primarily in corporate and other investment-grade U.S. fixed-income issues and have durations of 3.5 to six years (or, if duration is unavailable, average effective maturities of four to 10 years). These portfolios are less sensitive to interest rates, and therefore less volatile, than portfolios that have longer durations.

p12. Large Blend: Large-blend portfolios are fairly representative of the overall U.S. stock market in size, growth rates, and price. Stocks in the top 70% of the capitalization of the U.S. equity market are defined as large-cap. The blend style is assigned to portfolios where neither growth nor value characteristics predominate. These portfolios tend to invest across the spectrum of U.S. industries, and owing to their broad exposure, the portfolios returns are often similar to those of the S&P 500 Index.

p13. Large Growth: Large-growth portfolios invest in big U.S. companies that are projected to grow faster than other large-cap stocks. Stocks in the top 70% of the capitalization of the U.S. equity market are defined as large-cap. Growth is defined based on fast growth (high growth rates for earnings, sales, book value, and cash flow) and high valuations (high price ratios and low dividend yields). Most of these portfolios focus on companies in rapidly expanding industries.

p14. Large Value: Large-value portfolios invest primarily in big U.S. companies that are less expensive or growing more slowly than other large-cap stocks. Stocks in the top 70% of the capitalization of the U.S. equity market are defined as large-cap. Value is defined based on low valuations (low price ratios and high dividend yields) and slow growth (low growth rates for earnings, sales, book value, and cash flow).

p17. Mid-Cap Blend: The typical mid-cap blend portfolio invests in U.S. stocks of various sizes and styles, giving it a middle-of-the-road profile. Most shy away from high-priced growth stocks, but aren't so price-conscious that they land in value territory. The U.S. mid-cap range for market capitalization typically falls between \$1 billion-\$8 billion and represents 20% of the total capitalization of the U.S. equity market. The blend style is assigned to portfolios where neither growth nor value characteristics predominate.

p18. Mid-Cap Growth: Some mid-cap growth portfolios invest in stocks of all sizes, thus leading to a mid-cap profile, but others focus on midsize companies. Mid-cap growth portfolios target U.S. firms that are projected to grow faster than other mid-cap stocks, therefore commanding relatively higher prices. The U.S. mid-cap range for market capitalization typically falls between \$1 billion-\$8 billion and represents 20% of the total capitalization of the U.S. equity market. Growth is defined based on fast growth (high growth rates for earnings, sales, book value, and cash flow) and high valuations (high price ratios and low dividend yields).

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

p20. Moderate Allocation: Moderate-allocation portfolios seek to provide both capital appreciation and income by investing in three major areas: stocks, bonds, and cash. These portfolios tend to hold larger positions in stocks than conservative-allocation portfolios. These portfolios typically have 50% to 70% of assets in equities and the remainder in fixed income and cash.

p21. Money Market Taxable: These portfolios invest in short-term money market securities in order to provide a level of current income that is consistent with the preservation of capital.

p22. Multisector Bond: Multisector bond portfolios seek income by diversifying their assets among several fixed-income sectors, usually U.S. government obligations, U.S. corporate bonds, foreign bonds, and high-yield U.S. debt securities. These portfolios typically hold 35% to 65% of bond assets in securities that are not rated or are rated by a major agency such as Standard & Poor's or Moody's at the level of BB (considered speculative for taxable bonds) and below.

p23. Short-Term Government: Short-government portfolios have at least 90% of their bond holdings in bonds backed by the U.S. government or by government-linked agencies. This backing minimizes the credit risk of these portfolios, as the U.S. government is unlikely to default on its debt. These portfolios have durations between one and 3.5 years (or, if duration is unavailable, average effective maturities between one and four years), so they have relatively less sensitivity to interest rates, and thus low risk potential.

p24. Small Blend: Small-blend portfolios favor U.S. firms at the smaller end of the market-capitalization range. Some aim to own an array of value and growth stocks while others employ a discipline that leads to holdings with valuations and growth rates close to the small-cap averages. Stocks in the bottom 10% of the capitalization of the U.S. equity market are defined as small-cap. The blend style is assigned to portfolios where neither growth nor value characteristics predominate.

p25. Small Growth: Small-growth portfolios focus on faster-growing companies whose shares are at the lower end of the market-capitalization range. These portfolios tend to favor companies in up-and-coming industries or young firms in their early growth stages. Because these businesses are fast-growing and often richly valued, their stocks tend to be volatile. Stocks in the bottom 10% of the capitalization of the U.S. equity market are defined as small-cap. Growth is defined based on fast growth (high growth rates for earnings, sales, book value, and cash flow) and high valuations (high price ratios and low dividend yields).

p26. Small Value: Small-value portfolios invest in small U.S. companies with valuations and growth rates below other small-cap peers. Stocks in the bottom 10% of the capitalization of the U.S. equity market are defined as small-cap. Value is defined based on low valuations (low price ratios and high dividend yields) and slow growth (low growth rates for earnings, sales, book value, and cash flow).

p31. Real Estate: Real estate portfolios invest primarily in real-estate investment trusts (REITs) of various types. REITs are companies that develop and manage real-estate properties. There are several different types of REITs, including apartment, factory-outlet, health-care, hotel, industrial, mortgage, office, and shopping center REITs. Some portfolios in this category also invest in real-estate operating companies.

p32. Technology: Technology portfolios buy high-tech businesses in the U.S. or outside of the U.S. Most concentrate on computer, semiconductor, software, networking, and Internet stocks. A few also buy medical-device and biotechnology stocks and some concentrate on a single technology industry.

p33. Utilities: Utilities portfolios seek capital appreciation by investing primarily in equity securities of U.S. or non-U.S. public utilities including electric, gas, and telephone-service providers.

p35. Target Date 2000-2010: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2000-2010) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p36. Target Date 2011-2015: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2011-2015) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p37. Target Date 2016-2020: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2016-2020) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p38. Target Date 2021-2025: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2021-2025) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p39. Target Date 2026-2030: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2026-2030) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p40. Target Date 2031-2035: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2031-2035) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p41. Target Date 2036-2040: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2036-2040) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p42. Target Date 2041-2045: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2041-2045) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p47. World Bond: World bond portfolios invest 40% or more of their assets in foreign bonds. Some world bond portfolios follow a conservative approach, favoring high-quality bonds from developed markets. Others are more adventurous, and own some lower-quality bonds from developed or emerging markets. Some portfolios invest exclusively outside the U.S., while others regularly invest in both U.S. and non-U.S. bonds.

p48. World Stock: World-stock portfolios have few geographical limitations. It is common for these portfolios to invest the majority of their assets in the U.S., Europe, and Japan, with the remainder divided among the globe's smaller markets. These portfolios typically have 20%-60% of assets in U.S. stocks.

p52. Equity Energy: Equity energy portfolios invest primarily in equity securities of U.S. or non-U.S. companies who conduct business primarily in energy-related industries. This includes and is not limited to companies in alternative energy, coal, exploration, oil and gas services, pipelines, natural gas services and refineries.

p53. Target Date 2046-2050: Target date portfolios provide a diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2046-2050) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Over time, management adjusts the allocation among asset classes to more conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

p54. Aggressive Allocation: Aggressive-allocation portfolios seek to provide both capital appreciation and income by investing in three major areas: stocks, bonds, and cash. These portfolios tend to hold larger positions in stocks than moderate-allocation portfolios. These portfolios typically have 70% to 90% of assets in equities and the remainder in fixed income and cash.

p63. Target Date 2051\*: Target-date portfolios provide a diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2051 and beyond) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

## Key Statistics

\* The Turnover Ratio shown is based on the most recent available financial statements for the underlying mutual fund, collective trust, or ETF as of the date of printing and is subject to change.





RETIREMENT PLAN  
SERVICES

# 404a-5 Plan & Investment Notice

THE TRUSTEES OF THE PLATINUM 401(K) RETIREMENT SAVINGS PLAN FBO MRI  
SOFTWARE, LLC PLAN

As of September 30, 2015

This disclosure statement contains important information regarding your retirement plan that we, as Plan Sponsor, are required to provide under ERISA Reg. section 404a-5. You are receiving this disclosure because you are eligible to participate in the plan or you have the right to direct the investment of an account under the plan. In this document, you will find information about how the plan works, the expenses that may be charged, and information that will help you make informed decisions when selecting and managing the investment of your account.

## General Plan Information

The following provides an explanation of how you may direct investments in the Plan and outlines the restrictions and policies that apply to the investment options available under your Plan:

### HOW TO PROVIDE YOUR INVESTMENT INSTRUCTIONS

You can direct your Plan investments using any of the following:

- Enrollment form
- Investment change form
- Participant website at [www.jhpensions.com](http://www.jhpensions.com)
- Participant services toll-free line at 800-395-1113 or 800-363-0530 for Spanish

You may direct the investment of the funds held in your plan account to any of the investment options outlined in the attached Investment Comparative Chart.

### TIMELINES REGARDING YOUR INVESTMENT INSTRUCTIONS

Investment Instructions:

- Can be given using the options outlined above.
- Can be given at any time unless you are provided an addendum that states restrictions on the times at which you may provide investment instructions.
- Are generally processed on the same business day, provided they are received by John Hancock before 4 p.m. EST (or before the New York Stock Exchange closes, if earlier). If received on or after 4 p.m. EST, they will be processed the next business day.

### SHORT-TERM TRADING POLICY

Changes to your investments under your qualified retirement plan account are subject to the following short-term trading guidelines of John Hancock and may be cancelled if not within these guidelines:

- Investment exchanges can be made up to a maximum of two exchanges per calendar month.
- In the event that there may be extreme market or personal circumstances requiring you to make an additional change, you may move 100% of your assets to the Money Market Fund after the exchange limit has been reached; no subsequent exchanges may be made for 30 days. Once the 30-day hold has expired, you can then trade again in accordance with the above guideline.
- At the request of the fund company of an underlying fund, and as outlined in their prospectus, the following additional restrictions may be imposed on your account, including but not limited to:
  - Applying redemption fees and/or trade restrictions which may be more restrictive than the above guidelines,
  - Restricting the number of exchanges made during a defined period,
  - Restricting the dollar amount of exchanges,
  - Restricting the method used to submit exchanges (i.e. requiring exchange requests to be submitted in writing via U.S. mail),
  - Restricting exchanges into and out of certain investment options.

## REDEMPTION FEES

An underlying mutual fund may apply a redemption fee or other fee for certain investment transfers.

- This fee is deducted from your account.
- For a list of the funds that have redemption fees, refer to the Investment Comparative Chart or go to the investment options tab at [www.jhpensions.com](http://www.jhpensions.com) for the most recent listing.

## DESIGNATED INVESTMENT ALTERNATIVES

Your Plan provides designated investment alternatives into which you can direct the investment of your account balance.

- For a full listing of these Funds, including applicable important information, refer to the attached Investment Comparative Chart.
- A listing of the Funds available for selection can also be accessed under the investment options tab on the Participant website at [www.jhpensions.com](http://www.jhpensions.com).

## Administrative Expenses

The following administrative charges are applied to your account for services related to the operation of the plan. Percentage-based expenses shown below are annual charges which will be converted to a monthly rate and applied to your month-end account balance (i.e. calculated on a '**pro-rata**' basis). Dollar-based expenses are annual amounts which will be converted to a monthly charge unless specified otherwise (i.e. calculated on a '**per participant**' basis). Expenses that are actually deducted from your account will appear on your quarterly benefit statements.

- Your plan has engaged John Hancock to provide record-keeping services such as educational resources, transaction processing, investment platform, quarterly statements and website tools. Dollar-based charges\* are currently waived. Percentage-based charges\*, if applicable, are offset by credits that have been negotiated by your plan sponsor. As a result, a credit of 0.06%\*\* is currently being applied to your account on a pro-rata basis. Any charges and/or credits will appear on your quarterly benefit statements.

\* Charges may fluctuate or be waived based on the total assets in the plan, according to a pre-set fee schedule and other conditions agreed to by your plan sponsor and John Hancock. Total applicable percentage-based charges for your plan are currently waived.

\*\*The credit rate is an annual rate which will be converted to a monthly rate and applied to your month-end account balance. The rate may vary depending on the applicable percentage-based charges. If the rate of the charge that applies is higher than the rate of the negotiated credits, a net charge equal to the difference between such rates will be converted into a monthly rate and applied to your account balance at the end of each month.

If you have any questions, please contact your plan sponsor.

## Individual Expenses

Your Plan imposes additional charges if you elect to use certain services/features. These charges are imposed specifically against your account, and are not imposed on a plan-wide basis. Expenses deducted from your account will appear on your quarterly benefit statements.

As of September 30, 2015 the fees listed below apply if you use any of the services or features below:

Fee Type	Amount	Special Notes
Loan Fee	\$2.00	Per loan, per month
Mailed Detailed Statement Fee	\$1.00	Per statement per quarter
Death Withdrawal	\$65.00	
Disability Withdrawal	\$65.00	
Withdrawal of Employee Rollover Money	\$65.00	
Withdrawal of Excess Annual Additions	\$65.00	
Withdrawal of Excess Contributions	\$65.00	
Withdrawal of Excess Deferrals	\$65.00	
Hardship Withdrawal	\$65.00	

Fee Type	Amount	Special Notes
Withdrawal of In-Plan Roth Rollover Money	\$65.00	
In-Service Withdrawal (Age 59 1/2)	\$65.00	
Pre-Retirement Withdrawal	\$65.00	
Loan Set-up	\$65.00	
Required Minimum Distribution	\$65.00	
Qualified Domestic Relations Order Withdrawal	\$65.00	
Retirement Withdrawal	\$65.00	
Termination of Employment Withdrawal	\$65.00	

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# Investment Comparative Chart

## THE TRUSTEES OF THE PLATINUM 401(K) RETIREMENT SAVINGS PLAN FBO MRI SOFTWARE, LLC PLAN

This document includes important information to help you compare the investment options available under your retirement plan. If you would like to receive additional investment-related information about any of the investment options listed below - including performance data and the option's principal risks - go to the Fund's corresponding website address (shown in the table) or to [www.jhpensions.com](http://www.jhpensions.com). To obtain more information, or to receive a paper copy (at no cost) of the information available on the websites, contact Sarah Jialanella at (216) 825-6607 and Suite 200, c/o 2451 McMullen Booth Rd., Clearwater, FL, 33759

### DOCUMENT OVERVIEW

This document is comprised of two sections; Performance Information and Fee and Expense Information.

### Performance Information

This section outlines your retirement plan investment options, how they have performed over time and allows you to compare with an appropriate benchmark for the same time period. Benchmark returns are shown for comparative purposes only. Benchmark returns represent the performance of market indices, which cannot be invested in directly, and their returns are calculated without taking into account any investment fees and/or expenses. Hypothetical Returns are shown in bold.

The data presented represents past performance and does not guarantee future performance. Current performance may be lower or higher than the performance quoted. An investment in a sub-account will fluctuate in value to reflect the value of the sub-account's underlying securities and, when redeemed, may be worth more or less than original cost. Performance does not reflect any applicable contract-level or certain participant-level charges, or any redemption fees imposed by an underlying mutual fund company. These charges, if included, would otherwise reduce the total return for a participant's account. Participants can call 1-800-395-1113 or visit [www.jhpensions.com](http://www.jhpensions.com) for more information.

### Fee and Expense Information

This section shows fee and expense information for the investment options available under your contract. Total Annual Operating Expenses and Shareholder-type Fees (if applicable) are outlined as they relate to each investment option. Total Annual Operating Expenses are expenses that reduce the rate of return of the investment option. It is important to understand that the investment rate of return, as set out in the Performance Information section, is calculated net of the Total Annual Operating Expenses of the investment option. However, such returns do not take into account any applicable Shareholder-type fees, which are in addition to the Total Annual Operating Expenses of the investment option.

The Total Annual Operating Expenses ("TAOE") is made up in part by the expenses of the underlying fund based on the underlying fund's expense ratios reported in the most recent prospectuses available as of the date of printing; "FER"). The underlying fund is the mutual fund, collective trust, or exchange traded fund in which the sub-account invests. § The underlying fund of this sub-account has either waived a portion of, or capped, its fees. The TAOE is that of the sub account and reflects the net expense ratio of the underlying fund after such expense waiver or cap is applied. Please see the Fund Sheet for details, including gross expenses.

The cumulative effect of fees and expenses can substantially reduce the growth of your retirement savings. Visit the Department of Labor's website for an example showing the long-term effect of fees and expenses at [www.dol.gov/ebsa/publications/401k\\_employee.html](http://www.dol.gov/ebsa/publications/401k_employee.html). Fees and expenses are only one of many factors to consider when you decide to invest in an option. You may also want to think about whether an investment in a particular option, along with your other investments, will help you achieve your financial goals.



## VARIABLE RETURN INVESTMENTS\*

The table below focuses on the performance of investment options that do not have a fixed or stated rate of return.

Name/Type of Option		Return YTD as of 08/31/2015	Average Annual Total Return as of 12/31/2014				Benchmark YTD as of 08/31/2015	Benchmark <sup>†</sup> Return as of 12/31/2014				Total Annual Operating Expenses as of 08/31/2015		Shareholder-Type Fees
			1 yr.	5 yr.	10 yr.	Since Inception		1 yr.	5 yr.	10 yr.	Since Inception	As a %	Per \$1,000	
EQUITY FUNDS														
AG	Aston/Fairpointe Mid Cap Fund (AOM) <sup>87,103,104</sup> Mid Cap Blend <a href="http://www.viewjhfunds.com/usa/C06/aoma/index.html">http://www.viewjhfunds.com/usa/C06/aoma/index.html</a>	-10.55%	9.03%	15.56%	10.16%	12.56%	-1.48%	9.76%	16.54%	9.70%	12.58%	1.78%	\$17.80	N/A
								S&P MidCap 400 TR						
AG	Royce Opportunity Fund (OPP) <sup>36,39</sup> Small Cap Value <a href="http://www.viewjhfunds.com/usa/C06/oppa/index.html">http://www.viewjhfunds.com/usa/C06/oppa/index.html</a>	-9.97%	-1.22%	14.51%	7.39%	11.85%	-2.96%	4.89%	15.54%	7.76%	8.63%	1.92%	\$19.20	N/A
								Russell 2000 TR						
AG	DFA US Small Cap Fund (SCP) <sup>31,54</sup> Small Cap Blend <a href="http://www.viewjhfunds.com/usa/C06/scpa/index.html">http://www.viewjhfunds.com/usa/C06/scpa/index.html</a>	-2.72%	3.46%	16.31%	7.87%	10.36%	-2.96%	4.89%	15.54%	7.76%	9.84%	1.34%	\$13.40	N/A
								Russell 2000 TR						
AG	Vanguard Small Cap Growth Index Fund (VSG) <sup>41,120,125</sup> Small Cap Growth <a href="http://www.viewjhfunds.com/usa/C06/vsga/index.html">http://www.viewjhfunds.com/usa/C06/vsga/index.html</a>	-0.94%	3.04%	15.73%	8.47%	7.91%	-0.35%	3.98%	15.81%	9.48%	N/A	1.06%	\$10.60	N/A
								CRSP US Small Cap Growth						
AG	International Value Fund (ITV) <sup>9,13,23,47,73</sup> International/Global Value <a href="http://www.viewjhfunds.com/usa/C06/itva/index.html">http://www.viewjhfunds.com/usa/C06/itva/index.html</a>	-3.89%	-12.83%	3.91%	3.85%	4.18%	-0.20%	-4.90%	5.33%	4.43%	3.61%	1.44%	\$14.40	N/A
								MSCI EAFE TR						
AG	§ Oppenheimer Developing Markets Fund (DMK) <sup>21,56,71</sup> International/Global Growth <a href="http://www.viewjhfunds.com/usa/C06/dmka/index.html">http://www.viewjhfunds.com/usa/C06/dmka/index.html</a>	-15.64%	-5.21%	4.98%	10.84%	12.89%	-12.85%	-2.18%	1.77%	8.42%	N/A	1.79%	\$17.90	N/A
								MSCI Emerging Markets						
AG	Oppenheimer Global Fund (WWF) <sup>29,56,81,130</sup> International/Global Growth <a href="http://www.viewjhfunds.com/usa/C06/wwfa/index.html">http://www.viewjhfunds.com/usa/C06/wwfa/index.html</a>	3.32%	1.60%	10.14%	6.36%	11.29%	-2.44%	4.93%	10.20%	6.02%	N/A	1.60%	\$16.00	N/A
								MSCI World TR						
AG	EuroPacific Growth Fund (EPG) <sup>38,40,41,47,61,65,85</sup> International/Global Growth <a href="http://www.viewjhfunds.com/usa/C06/epga/index.html">http://www.viewjhfunds.com/usa/C06/epga/index.html</a>	-0.51%	-3.22%	5.11%	6.06%	10.53%	-3.85%	-3.43%	4.88%	5.59%	N/A	1.45%	\$14.50	N/A
								MSCI All Country World Index ex U.S.						

NOTE: The Fund Code can be found in brackets beside the Fund name.

Name/Type of Option		Return YTD as of 08/31/2015	Average Annual Total Return as of 12/31/2014				Benchmark YTD as of 08/31/2015	Benchmark <sup>†</sup> Return as of 12/31/2014				Total Annual Operating Expenses as of 08/31/2015		Shareholder-Type Fees
			1 yr.	5 yr.	10 yr.	Since Inception		1 yr.	5 yr.	10 yr.	Since Inception	As a %	Per \$1,000	
G	Capital Appreciation Fund (CPA) <sup>12,13,15,57,73,85,106,115</sup> Large Cap Growth <a href="http://www.viewjhfunds.com/usa/C06/cpaa/index.html">http://www.viewjhfunds.com/usa/C06/cpaa/index.html</a>	5.14%	9.19%	13.90%	8.12%	<b>3.95%</b>	0.96%	13.04%	15.81%	8.49%	3.98%	1.25%	\$12.50	N/A
								Russell 1000 Growth TR						
G	Value Fund (VLF) <sup>13,22,77,91,106,123</sup> Mid Cap Value <a href="http://www.viewjhfunds.com/usa/C06/vlfa/index.html">http://www.viewjhfunds.com/usa/C06/vlfa/index.html</a>	-3.41%	9.34%	16.09%	9.79%	<b>8.63%</b>	-4.47%	14.74%	17.42%	9.42%	10.99%	1.29%	\$12.90	N/A
								Russell MidCap Value TR						
G	<sup>\$</sup> Baird MidCap Fund (BAI) <sup>134</sup> Mid Cap Growth <a href="http://www.viewjhfunds.com/usa/C06/baia/index.html">http://www.viewjhfunds.com/usa/C06/baia/index.html</a>	<b>-1.11%</b>	<b>4.06%</b>	<b>15.86%</b>	<b>8.15%</b>	<b>6.19%</b>	-0.29%	11.90%	16.93%	9.42%	6.10%	1.67%	\$16.70	N/A
								Russell MidCap Growth TR						
G	Prudential Jennison Mid Cap Growth Fund (JMG) <sup>4,71</sup> Mid Cap Growth <a href="http://www.viewjhfunds.com/usa/C06/jmga/index.html">http://www.viewjhfunds.com/usa/C06/jmga/index.html</a>	-0.73%	8.69%	<b>14.23%</b>	<b>9.83%</b>	<b>10.03%</b>	-0.29%	11.90%	16.93%	9.42%	8.76%	1.49%	\$14.90	N/A
								Russell MidCap Growth TR						
G&I	Vanguard Value Index Fund (LVI) <sup>98,125</sup> Large Cap Value <a href="http://www.viewjhfunds.com/usa/C06/lvia/index.html">http://www.viewjhfunds.com/usa/C06/lvia/index.html</a>	-5.59%	12.12%	13.90%	<b>6.29%</b>	<b>8.70%</b>	-4.97%	13.28%	15.72%	7.32%	N/A	1.06%	\$10.60	N/A
								CRSP US Large Cap Value						
G&I	Fundamental Large Cap Value Fund (EQI) <sup>5,13,73,101,102,117</sup> Large Cap Value <a href="http://www.viewjhfunds.com/usa/C06/eqia/index.html">http://www.viewjhfunds.com/usa/C06/eqia/index.html</a>	-3.37%	10.13%	15.81%	6.51%	7.70%	-6.12%	13.45%	15.42%	7.30%	8.28%	1.17%	\$11.70	N/A
								Russell 1000 Value TR						
G&I	Parnassus Core Equity Fund (PEI) <sup>33,132</sup> Large Cap Blend <a href="http://www.viewjhfunds.com/usa/C06/peia/index.html">http://www.viewjhfunds.com/usa/C06/peia/index.html</a>	-3.62%	13.75%	14.04%	N/A	<b>10.07%</b>	-2.88%	13.68%	15.45%	7.67%	7.62%	1.54%	\$15.40	N/A
								S&P 500 TR						
G&I	Fidelity Contra Fund (CON) Large Cap Growth <a href="http://www.viewjhfunds.com/usa/C06/cona/index.html">http://www.viewjhfunds.com/usa/C06/cona/index.html</a>	1.76%	8.80%	13.90%	8.77%	<b>12.34%</b>	-2.88%	13.68%	15.45%	7.67%	11.60%	1.36%	\$13.60	N/A
								S&P 500 TR						
G&I	Franklin Mutual Global Discovery Fund (DIS) <sup>42,61,132</sup> International/Global Blend <a href="http://www.viewjhfunds.com/usa/C06/disa/index.html">http://www.viewjhfunds.com/usa/C06/disa/index.html</a>	-2.78%	4.60%	9.56%	8.01%	<b>11.95%</b>	-2.44%	4.93%	10.20%	6.02%	7.66%	1.71%	\$17.10	N/A
								MSCI World TR						

#### BOND FUNDS

NOTE: The Fund Code can be found in brackets beside the Fund name.

Name/Type of Option	Return YTD as of 08/31/2015	Average Annual Total Return as of 12/31/2014				Benchmark YTD as of 08/31/2015	Benchmark <sup>†</sup> Return as of 12/31/2014				Total Annual Operating Expenses as of 08/31/2015		Shareholder-Type Fees
		1 yr.	5 yr.	10 yr.	Since Inception		1 yr.	5 yr.	10 yr.	Since Inception	As a %	Per \$1,000	
<div> <div></div> <div>Vanguard Short-Term Federal Fund (GOV)<sup>15,83,120,125,142,143</sup> High Quality Short Term Fixed Income <a href="http://www.viewjhfunds.com/usa/C06/gova/index.html">http://www.viewjhfunds.com/usa/C06/gova/index.html</a> </div> </div>	0.23%	0.36%	0.77%	2.25%	<b>4.35%</b>	1.07%	1.18%	1.75%	3.11%	5.44%	1.07%	\$10.70	N/A
<div> <div></div> <div>Active Bond Fund (DVB)<sup>10,13,69,73</sup> High Quality Intermediate Term Fixed Income <a href="http://www.viewjhfunds.com/usa/C06/dvba/index.html">http://www.viewjhfunds.com/usa/C06/dvba/index.html</a> </div> </div>	0.09%	6.09%	6.00%	5.07%	5.40%	0.44%	5.96%	4.44%	4.70%	5.61%	1.16%	\$11.60	N/A
<div> <div></div> <div>Strategic Income Opportunities Fund (SIM)<sup>8,13,15,22,39,48,91,101</sup> Medium Quality Intermediate Term Fixed Income <a href="http://www.viewjhfunds.com/usa/C06/sima/index.html">http://www.viewjhfunds.com/usa/C06/sima/index.html</a> </div> </div>	1.25%	4.90%	7.44%	6.24%	6.75%	0.44%	5.96%	4.44%	4.70%	4.96%	1.21%	\$12.10	N/A
<div> <div></div> <div>High Yield Fund (HYF)<sup>13,45,54,69,73,115</sup> High Yield Bond <a href="http://www.viewjhfunds.com/usa/C06/hyfa/index.html">http://www.viewjhfunds.com/usa/C06/hyfa/index.html</a> </div> </div>	-1.15%	-1.16%	8.01%	6.60%	<b>5.33%</b>	-0.28%	1.83%	8.68%	7.32%	7.13%	1.23%	\$12.30	N/A
<div> <div></div> <div><sup>\$</sup>PIMCO Global Bond Fund (PFB)<sup>34,55</sup> Global Bond <a href="http://www.viewjhfunds.com/usa/C06/pfba/index.html">http://www.viewjhfunds.com/usa/C06/pfba/index.html</a> </div> </div>	-3.37%	1.41%	3.94%	3.69%	<b>5.39%</b>	0.10%	9.88%	4.84%	4.77%	N/A	1.52%	\$15.20	N/A
<div> <div></div> <div><sup>\$</sup>Money Market Fund (MMR)<sup>13,22,82,83,91,101,142,143</sup> High Quality Short Term Fixed Income <a href="http://www.viewjhfunds.com/usa/C06/mmra/index.html">http://www.viewjhfunds.com/usa/C06/mmra/index.html</a> </div> </div>	-0.58%	-0.84%	-0.68%	0.79%	<b>3.04%</b>	0.01%	0.03%	0.07%	1.46%	3.73%	1.03%	\$10.30	N/A

Money Market Fund current 7-day yield is -0.86%. The current yield quotation more closely reflects the current earnings of the Money Market Fund as of the date this report was prepared while the Annualized returns above refer to a specific past holding period reflecting the period covered by this report. Due to the Cost of Class of Funds, the subaccount's actual current yield may be lower or higher than that of the underlying trust. Although the fund strives to maintain a positive yield, there is no guarantee the fund will be able to do so. The Expense Ratio for the Money Market Fund is as of the business day immediately preceding the current date. An investment in the underlying Money Market fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The underlying fund seeks to preserve a value of \$1.00 per share but it is possible to lose money by investing in the Money Market Fund that invests in the underlying fund

#### OTHER FUNDS

<div> <div></div> <div><sup>\$</sup>JH Retirement Through 2055 - Active Strategies (LXX)<sup>13,114,126</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxka/index.html">http://www.viewjhfunds.com/usa/C06/lxka/index.html</a> </div> </div>	<b>-2.94%</b>	N/A	N/A	N/A	<b>4.77%</b>	-2.88%	13.68%	15.45%	7.67%	12.10%	1.37%	\$13.70	N/A
							S&P 500 TR						

NOTE: The Fund Code can be found in brackets beside the Fund name.

Name/Type of Option		Return YTD as of 08/31/2015	Average Annual Total Return as of 12/31/2014				Benchmark YTD as of 08/31/2015	Benchmark <sup>†</sup> Return as of 12/31/2014				Total Annual Operating Expenses as of 08/31/2015		Shareholder-Type Fees
			1 yr.	5 yr.	10 yr.	Since Inception		1 yr.	5 yr.	10 yr.	Since Inception	As a %	Per \$1,000	
TD	<sup>§</sup> JH Retirement Through 2050 - Active Strategies (LXJ) <sup>13,97,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxja/index.html">http://www.viewjhfunds.com/usa/C06/lxja/index.html</a>	-2.97%	5.16%	N/A	N/A	<b>7.58%</b>	-2.88%	13.68%	15.45%	7.67%	14.31%	1.36%	\$13.60	N/A
TD	<sup>§</sup> JH Retirement Through 2045 - Active Strategies (LXI) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxia/index.html">http://www.viewjhfunds.com/usa/C06/lxia/index.html</a>	-2.85%	5.06%	10.22%	N/A	5.04%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.36%	\$13.60	N/A
TD	<sup>§</sup> JH Retirement Through 2040 - Active Strategies (LXH) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxha/index.html">http://www.viewjhfunds.com/usa/C06/lxha/index.html</a>	-2.83%	5.10%	10.21%	N/A	5.05%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.35%	\$13.50	N/A
TD	<sup>§</sup> JH Retirement Through 2035 - Active Strategies (LXG) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxga/index.html">http://www.viewjhfunds.com/usa/C06/lxga/index.html</a>	-2.90%	5.07%	10.17%	N/A	5.03%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.35%	\$13.50	N/A
TD	<sup>§</sup> JH Retirement Through 2030 - Active Strategies (LXF) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxfa/index.html">http://www.viewjhfunds.com/usa/C06/lxfa/index.html</a>	-2.62%	5.02%	9.86%	N/A	4.79%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.35%	\$13.50	N/A
TD	<sup>§</sup> JH Retirement Through 2025 - Active Strategies (LXE) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxea/index.html">http://www.viewjhfunds.com/usa/C06/lxea/index.html</a>	-2.29%	4.82%	9.38%	N/A	4.72%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.33%	\$13.30	N/A
TD	<sup>§</sup> JH Retirement Through 2020 - Active Strategies (LXD) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxda/index.html">http://www.viewjhfunds.com/usa/C06/lxda/index.html</a>	-2.00%	4.53%	8.71%	N/A	4.68%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.34%	\$13.40	N/A
TD	<sup>§</sup> JH Retirement Through 2015 - Active Strategies (LXC) <sup>13,46,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxca/index.html">http://www.viewjhfunds.com/usa/C06/lxca/index.html</a>	-1.69%	4.09%	8.08%	N/A	4.55%	-2.88%	13.68%	15.45%	7.67%	7.47%	1.34%	\$13.40	N/A

NOTE: The Fund Code can be found in brackets beside the Fund name.



Name/Type of Option		Return YTD as of 08/31/2015	Average Annual Total Return as of 12/31/2014				Benchmark YTD as of 08/31/2015	Benchmark <sup>†</sup> Return as of 12/31/2014				Total Annual Operating Expenses as of 08/31/2015		Shareholder-Type Fees
			1 yr.	5 yr.	10 yr.	Since Inception		1 yr.	5 yr.	10 yr.	Since Inception	As a %	Per \$1,000	
TD	<sup>5</sup> JH Retirement Through 2010 - Active Strategies (LXB) <sup>13,46,57,101,111,114,125</sup> Asset Allocation - Target Date <a href="http://www.viewjhfunds.com/usa/C06/lxba/index.html">http://www.viewjhfunds.com/usa/C06/lxba/index.html</a>	-1.59%	3.87%	7.56%	N/A	4.53%	0.44%	5.96%	4.44%	4.70%	5.07%	1.34%	\$13.40	N/A
								BarCap U.S. Aggregate Bond TR						
LS	JH Lifestyle Aggressive - Active Strategies (ALS) <sup>13,68,101,125</sup> Asset Allocation - Lifestyle <a href="http://www.viewjhfunds.com/usa/C06/alsa/index.html">http://www.viewjhfunds.com/usa/C06/alsa/index.html</a>	-2.27%	4.23%	10.23%	5.69%	<b>4.33%</b>	-2.88%	13.68%	15.45%	7.67%	6.46%	1.51%	\$15.10	N/A
								S&P 500 TR						
LS	JH Lifestyle Growth - Active Strategies (GLS) <sup>13,68,101,123,125</sup> Asset Allocation - Lifestyle <a href="http://www.viewjhfunds.com/usa/C06/glsa/index.html">http://www.viewjhfunds.com/usa/C06/glsa/index.html</a>	-1.89%	4.32%	9.67%	5.78%	<b>5.10%</b>	-2.88%	13.68%	15.45%	7.67%	6.46%	1.46%	\$14.60	N/A
								S&P 500 TR						
LS	JH Lifestyle Balanced - Active Strategies (BLS) <sup>9,13,68,101,123,125</sup> Asset Allocation - Lifestyle <a href="http://www.viewjhfunds.com/usa/C06/blsa/index.html">http://www.viewjhfunds.com/usa/C06/blsa/index.html</a>	-1.56%	3.85%	8.47%	5.55%	<b>5.43%</b>	-2.88%	13.68%	15.45%	7.67%	6.46%	1.42%	\$14.20	N/A
								S&P 500 TR						
LS	JH Lifestyle Moderate - Active Strategies (MLS) <sup>13,31,68,101,125</sup> Asset Allocation - Lifestyle <a href="http://www.viewjhfunds.com/usa/C06/mlsa/index.html">http://www.viewjhfunds.com/usa/C06/mlsa/index.html</a>	-1.32%	3.45%	7.50%	5.21%	<b>5.52%</b>	0.44%	5.96%	4.44%	4.70%	5.54%	1.38%	\$13.80	N/A
								BarCap U.S. Aggregate Bond TR						
LS	JH Lifestyle Conservative - Active Strategies (CLS) <sup>13,68,101,125</sup> Asset Allocation - Lifestyle <a href="http://www.viewjhfunds.com/usa/C06/clsa/index.html">http://www.viewjhfunds.com/usa/C06/clsa/index.html</a>	-1.07%	3.26%	6.07%	4.85%	<b>5.45%</b>	0.44%	5.96%	4.44%	4.70%	5.54%	1.36%	\$13.60	N/A
								BarCap U.S. Aggregate Bond TR						
AG	Vanguard Energy Fund (VEN) <sup>14,34,120,125</sup> Sector <a href="http://www.viewjhfunds.com/usa/C06/vena/index.html">http://www.viewjhfunds.com/usa/C06/vena/index.html</a>	-15.05%	-15.02%	2.09%	7.12%	<b>10.70%</b>	-14.88%	-12.91%	2.30%	6.44%	N/A	1.28%	\$12.80	N/A
								MSCI ACWI/Energy						
AG	T. Rowe Price Science & Technology Fund (SCT) <sup>14,62</sup> Sector <a href="http://www.viewjhfunds.com/usa/C06/scta/index.html">http://www.viewjhfunds.com/usa/C06/scta/index.html</a>	-1.05%	11.73%	13.98%	8.04%	<b>10.76%</b>	-1.21%	12.25%	14.31%	8.51%	10.36%	1.63%	\$16.30	N/A
								Lipper Science & Technology						

NOTE: The Fund Code can be found in brackets beside the Fund name.

Name/Type of Option	Return YTD as of 08/31/2015	Average Annual Total Return as of 12/31/2014				Benchmark YTD as of 08/31/2015	Benchmark <sup>†</sup> Return as of 12/31/2014				Total Annual Operating Expenses as of 08/31/2015		Shareholder-Type Fees
		1 yr.	5 yr.	10 yr.	Since Inception		1 yr.	5 yr.	10 yr.	Since Inception	As a %	Per \$1,000	
<b>AG</b> Real Estate Securities Fund (REF) <sup>13,14,57,73</sup> Sector <a href="http://www.viewjhfunds.com/usa/C06/refa/index.html">http://www.viewjhfunds.com/usa/C06/refa/index.html</a>	-8.13%	31.00%	16.33%	7.95%	<b>10.28%</b>	-7.07%	30.37%	17.05%	8.31%	N/A	1.26%	\$12.60	N/A
<b>G</b> <sup>\$</sup> Mid Cap Index Fund (MCI) <sup>13,22,48,57,76,82,91,101</sup> Index <a href="http://www.viewjhfunds.com/usa/C06/mcia/index.html">http://www.viewjhfunds.com/usa/C06/mcia/index.html</a>	-2.08%	8.76%	15.54%	8.79%	<b>8.45%</b>	-1.48%	9.76%	16.54%	9.70%	9.40%	1.03%	\$10.30	N/A
<b>G</b> Utilities Fund (ULT) <sup>12,13,14,22,91,115</sup> Sector <a href="http://www.viewjhfunds.com/usa/C06/ulta/index.html">http://www.viewjhfunds.com/usa/C06/ulta/index.html</a>	-7.07%	12.10%	12.95%	11.19%	7.93%	-8.52%	28.97%	13.34%	9.63%	5.02%	1.39%	\$13.90	N/A
<b>G&amp;I</b> American Balanced Fund (ABF) <sup>31,38,40,50,61,65</sup> Balanced <a href="http://www.viewjhfunds.com/usa/C06/abfa/index.html">http://www.viewjhfunds.com/usa/C06/abfa/index.html</a>	-2.61%	8.19%	11.58%	6.38%	<b>10.27%</b>	-2.88%	13.68%	15.45%	7.67%	11.59%	1.26%	\$12.60	N/A
<b>G&amp;I</b> <sup>\$</sup> 500 Index Fund (IND) <sup>9,13,22,76,91,101,110</sup> Index <a href="http://www.viewjhfunds.com/usa/C06/inda/index.html">http://www.viewjhfunds.com/usa/C06/inda/index.html</a>	-3.50%	12.57%	14.43%	6.71%	<b>8.30%</b>	-2.88%	13.68%	15.45%	7.67%	9.24%	1.00%	\$10.00	N/A

Please visit [www.ps.jhancockpensions.com/assets/pdfs/SPARK\\_Glossary.pdf](http://www.ps.jhancockpensions.com/assets/pdfs/SPARK_Glossary.pdf) for a glossary of investment terms relevant to the investment options under this plan.

NOTE: The Fund Code can be found in brackets beside the Fund name.

## IMPORTANT NOTES

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

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

The placement of investment options within style boxes and according to potential risk/return shows John Hancock USA's assessment of those options relative to one another and should not be used to compare these investment options with other investment options available outside John Hancock USA.

<sup>1</sup>Index Performance: Index performance shown is for a broad-based securities market index. Indices are unmanaged and cannot be invested in directly. Index returns were prepared using Morningstar, Inc. software and data. The performance of an Index does not include any portfolio or insurance-related charges. If these charges were reflected, performance would be lower. Past performance is not a guarantee of future results.

<sup>4</sup>This sub-account was introduced May 7, 2010.

<sup>5</sup>The underlying fund changed its name effective on or about May 5, 2008. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about May 5, 2008 to more accurately reflect the name of the underlying fund.

<sup>8</sup>The underlying fund changed its name effective on or about May 10, 2010. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about May 10, 2010 to more accurately reflect the name of the underlying fund.

<sup>9</sup>Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 30, 2007. Contact your John Hancock representative for more information.

<sup>10</sup>The underlying fund changed its sub-advisor on December 15, 2010 from Declaration Management & Research LLC/MFC Global Investment Management (U.S.A.) Limited to Declaration Management & Research

LLC/John Hancock Asset Management, a division of Manulife Asset Management (North America) Limited.

<sup>12</sup>This sub-account was introduced April 27, 2001.

<sup>13</sup>The total revenue John Hancock receives on this Fund is higher than those advised or sub-advised exclusively by unaffiliated entities. John Hancock and its affiliates provide exclusive advisory and sub-advisory services for the underlying fund. For these services, John Hancock and its affiliates receive additional fees which are included in the underlying fund expense ratio (i.e. Fund Expense Ratio or FER).

<sup>14</sup>The underlying fund concentrates its investments in a sector of the market. A portfolio of this type may be riskier or more volatile in price than one that invests in more market sectors.

<sup>15</sup>Account balance reported for this Fund may include assets transferred from another Fund, which will be permanently closed on or about April 26, 2010. Consult your John Hancock representative for more information.

<sup>21</sup>This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective May 17, 2004. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio.

<sup>22</sup>The underlying fund changed its name effective on or about May 9, 2011. Performance shown for periods prior to that date reflect the results under its former name.

<sup>23</sup>Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 29, 2007. Consult your John Hancock representative for more information.

<sup>29</sup>This sub-account was introduced August 21, 2000.

<sup>31</sup>Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 27, 2009. Contact your John Hancock representative for more information.

<sup>33</sup>This sub-account was introduced May 29, 2009.

<sup>34</sup>This sub-account was introduced September 6, 2002.

<sup>36</sup>This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about May 10, 2010. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>38</sup>This sub-account was introduced May 2, 2003.

<sup>39</sup>This sub-account was introduced May 14, 2004.

<sup>40</sup>This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about July 28, 2008. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>41</sup>Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 27, 2008. Contact your John Hancock representative for more information.

<sup>42</sup>The name of this sub-account changed effective on or about November 9, 2009 to more accurately reflect the name of the underlying fund. Contact your John Hancock representative for more information.

<sup>45</sup>The portfolio concentrates its investments in high yield/high risk fixed income securities, also known as junk bonds, which carry a much greater risk of default and tend to be more volatile than higher rated bonds.

<sup>46</sup>The name of this sub-account changed effective on or about August 2, 2010.

<sup>47</sup>Account balance reported may include assets transferred from another sub-account which was permanently closed between April 22, 2005 and May 7, 2005.

<sup>48</sup>Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 25, 2010. Please contact your John Hancock representative for more information.

<sup>50</sup>Account balance reported may include assets transferred from another Fund which was permanently closed between April 25, 2004 and May 1, 2004.

<sup>54</sup>Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 18, 2011. Please contact your John Hancock representative for more information.

<sup>55</sup>This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective on or about May 7, 2005. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio.

<sup>56</sup>This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about November 10, 2008. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>57</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 26, 2009. Contact your John Hancock representative for more information.

<sup>61</sup> This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about November 9, 2009. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>62</sup> Account balance reported may include assets transferred from another Fund which was permanently closed between April 25, 2003 and May 5, 2003.

<sup>65</sup> This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about June 1, 2009. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>68</sup> This sub-account previously invested in another underlying portfolio. It began investing in the current underlying portfolio effective October 14, 2005. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio. Performance shown for all periods has been adjusted to reflect the current sub-account charge and would be lower if it reflected the sub-account charge that was in effect prior to October 14, 2005, which was .20% higher than the current sub-account charge.

<sup>69</sup> The sub-adviser or manager changed its name on or about May 6, 2006. Performance shown for periods prior to that date reflect the results under the sub-adviser's former name.

<sup>71</sup> Only available under certain limited circumstances. Consult your John Hancock representative for more information.

<sup>73</sup> This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective October 14, 2005.

<sup>76</sup> None of the Index Funds or the underlying John Hancock Trust Index Trusts or ETFs are sponsored, endorsed, managed, advised, sold or promoted by any of the respective companies that sponsor the broad-based securities market index, and none of these companies make any representation regarding the advisability of investing in the Index Fund.

<sup>77</sup> The underlying fund changed its sub-advisor on November 8, 2010 from Van Kampen Investments to Invesco Advisers, Inc.

<sup>81</sup> This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective February 9, 2004. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio.

<sup>82</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 30, 2006. Contact your John Hancock representative for more information.

<sup>83</sup> This investment option is deemed a "Competing" investment option with the John Hancock Stable Value Fund and may not be available. An investment in this portfolio is not insured or guaranteed by The Federal Deposit Insurance Corporation or any other government agency. Although the underlying portfolio seeks to preserve the value of an investment, it is possible to lose money by investing in this portfolio.

<sup>85</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 22, 2006. Contact your John Hancock representative for more information.

<sup>87</sup> This sub-account was introduced November 5, 2010.

<sup>91</sup> The underlying John Hancock Variable Insurance Trust portfolio is not a retail mutual fund and is only available under variable annuity contracts, variable life policies or through participation in tax qualified retirement plans. Although the portfolios' investment adviser or sub-advisers may manage retail mutual funds with similar names and investment objectives, no representation is made, and no assurance is given, that any portfolio's investment results will be comparable to the investment results of any other fund, including other funds with the same investment adviser or sub-adviser. Past performance is no guarantee of future results.

<sup>97</sup> This sub-account was introduced May 6, 2011.

<sup>98</sup> This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about May 9, 2011. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>101</sup> The underlying fund changed its sub-advisor on December 15, 2010 from MFC Global Investment Management (U.S.A.) Limited to John Hancock Asset Management, a division of Manulife Asset Management (North America) Limited.

<sup>102</sup> This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective November 7, 2011. Performance shown for periods prior to that date is based on the performance of the current underlying portfolio. The name of this sub-account changed effective on or about November 7, 2011 to more accurately reflect the name of the underlying fund.

<sup>103</sup> The underlying fund changed its name effective on or about November 7, 2011. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about November 7, 2011 to more accurately reflect the name of the underlying fund.

<sup>104</sup> The underlying fund's manager changed its name from Optimum Investment Advisors, LLC to Fairpointe Capital, LLC. on or about November 7, 2011. Contact your John Hancock representative for more information.

<sup>106</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 23, 2012. Please contact your John Hancock representative for more information.

<sup>110</sup> This sub-account previously invested in a different underlying portfolio. It began investing in the current underlying portfolio effective November 2, 2012. Performance shown for periods prior to that date is based on the performance of the previous underlying portfolio/sub-account. The name of this sub-account may change effective on or about November 2, 2012 to more accurately reflect the name of the underlying fund.

<sup>111</sup> The underlying fund changed its name effective on or about November 2, 2012. Performance shown for periods prior to that date reflect the results under its former name. The name of this sub-account changed effective on or about November 2, 2012 to more accurately reflect the name of the underlying fund.

<sup>114</sup> If John Hancock has been provided with your date of birth and no investment instructions at the time of enrollment, then, on the date of your enrollment, you will be default enrolled into a Target Date (Lifecycle Portfolio) based on your year of birth and a retirement age of 67, and subject to the Target Date then in existence.

<sup>115</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 22, 2013. Please contact your John Hancock representative for more information.

<sup>117</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about October 21, 2013. Please contact your John Hancock representative for more information.

<sup>120</sup> This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective on or about November 8, 2013. Performance shown for periods prior to that date is based on the performance of the current share class.

<sup>123</sup> Account balance reported may include assets transferred from another Fund, which was permanently closed on or about April 11, 2014. Please contact your John Hancock representative for more information.

<sup>125</sup> The name of this sub-account changed effective on or about May 3, 2014.

<sup>126</sup> This sub-account was introduced May 3, 2014.

<sup>130</sup> This sub-account previously invested in a different share class of the same underlying portfolio. It began investing in the current share class effective

on or about November 8, 2014. Performance shown for periods prior to that date is based on the performance of the old share class.

<sup>132</sup>The name of this sub-account changed effective on or about November 8, 2014.

<sup>134</sup>This sub-account was recently introduced on November 8, 2014 and may not be available in all states. Contact your John Hancock representative to determine if this sub-account is available to your plan.

<sup>142</sup>This investment option is deemed a 'Competing' investment option with the Reliance Trust New York Life Anchor Account and may not be available if the Reliance Trust New York Life Anchor Account is selected. For further details, please refer to the Offering Statement and Declaration of Trust. Contact your John Hancock representative if you wish to obtain a copy.

<sup>143</sup>This investment option is deemed a 'Competing' investment option with the Federated Capital Preservation Fund and may not be available if the Federated Capital Preservation Fund is selected. For further details, please refer to the Offering Circular and Declaration of Trust. Contact your John Hancock representative if you wish to obtain a copy.

<sup>5</sup>The Total Annual Operating Expenses ("TAOE") is made up of John Hancock's (i) "Revenue from Sub-account", and (ii) the expenses of the underlying fund (based on expense ratios reported in the most recent prospectuses available as of the date of printing; "FER"). The underlying fund of this sub-account has either waived a portion of, or capped, its fees; the FER used to determine the TAOE of the sub-account that invests in the underlying fund is the net expense ratio of the underlying fund. Refer to the Fund Sheet for details.

### Risks Applicable to All Funds

#### **Credit and Counterparty Risk**

A fund is subject to the risk that the issuer or guarantor of a fixed-income security or other obligation, the counterparty to a derivatives contract or repurchase agreement, or the borrower of a fund's securities will be unable or unwilling to make timely principal, interest, or settlement payments, or to otherwise honor its obligations.

#### **Issuer Risk**

An issuer of a security purchased by a fund may perform poorly, and, therefore, the value of its stocks and bonds may decline. Poor performance may be caused by poor management decisions, competitive pressures, breakthroughs in technology, reliance on suppliers, labor problems or shortages, corporate restructurings, fraudulent disclosures, or other factors.

#### **Liquidity Risk**

A fund is exposed to liquidity risk when trading volume, lack of a market maker, or legal restrictions impair the fund's ability to sell particular securities or close derivative positions at an advantageous price. Funds

with investment strategies that involve securities of companies with smaller market capitalizations, foreign securities, derivatives, or securities with substantial market and/or credit risk tend to have the greatest exposure to liquidity risk.

#### **Manager Risk**

The performance of a fund that is actively managed will reflect in part the ability of the manager to make investment decisions that are suited to achieving the fund's investment objective. Depending on the manager's investment decisions, a fund may not reach its investment objective or it could underperform its peers or lose money.

#### **Market Risk**

The value of a fund's securities may go down in response to overall stock or bond market movements. Markets tend to move in cycles, with periods of rising prices and periods of falling prices. Stocks tend to go up and down in value more than bonds. If the fund's investments are concentrated in certain sectors, its performance could be worse than the overall market.

#### **Merger and Replacement Transition Risk**

In the case of Fund mergers and replacements, the affected Funds that are being merged or replaced may implement the redemption of your interest by payment in cash or by distributing assets in kind. In either case, the redemption of your interest by the affected Fund, as well as the investment of the redemption proceeds by the "new" Fund, may result in transaction costs to the Funds because the affected Funds may find it necessary to sell securities and the "new" Funds will find it necessary to invest the redemption proceeds. Also, the redemption and reinvestment processes, including any transition period that may be involved in completing such mergers and replacements, could be subject to market gains or losses, including those from currency exchange rates. The transaction costs and potential market gains or losses could have an impact on the value of your investment in the affected Fund and in the "new" Fund, and such market gains or losses could also have an impact on the value of any existing investment that you or other investors may have in the "new" Fund. Although there can be no assurances that all risks can be eliminated, John Hancock will use its best efforts to manage and minimize such risks and costs. Where the redemption of your interest is implemented through a distribution of assets in kind, the effective date of the merger or replacement may vary from the target date due to the transition period, commencing either before or after the date that is required to liquidate or transition the assets for investment in the "new" Fund.

#### **Risk of increase in expenses**

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

### Additional Risks Applicable to Certain Funds

#### **Asset Backed Security Risk**

The fund may invest in asset-backed securities. Asset-backed securities include interests in pools of residential or commercial mortgages, debt securities, commercial or consumer loans, or other receivables. Often, the issuer of asset-backed securities is a special purpose entity and the investor's recourse is limited to the assets comprising the pool. The value of such securities depends on many factors, including, but not limited to, changes in interest rates, the structure of the pool and the priority of the securities within that structure, the credit quality of the underlying assets, the skill of the pool's servicer, the market's perception of the pool's servicer, and credit enhancement features (if any).

#### **Commodity Risk**

Commodity investments involve the risk of volatile market price fluctuations of commodities resulting from fluctuating demand, supply disruption, speculation and other factors.

#### **Convertible securities Risk**

As convertible securities share both fixed income and equity characteristics, they are subject to risks to which fixed income and equity investments are subject. These risks include equity risk, interest rate risk and credit risk

#### **Correlation Risk**

To the extent that the Fund uses derivatives for hedging or reducing exposure, there is the risk of imperfect correlation between movements in the value of the derivative instrument and the value of an underlying asset, reference rate or index. To the extent that the Fund uses derivatives for hedging purposes, there is the risk during extreme market conditions that an instrument which would usually operate as a hedge provides no hedging benefits at all.

#### **Currency Risk**

Funds that invest directly in foreign currencies and in securities that trade in, or receive revenues in, foreign currencies, are subject to the risk that those currencies will decline in value relative to the currency being hedged.

#### **Derivatives/Hedging/Strategic Transactions Risk**

A fund's use of certain derivative instruments (such as options, futures and swaps) could produce disproportionate gains or losses in excess of the principal amount invested. Derivatives are generally considered more risky than investing directly in securities and, in a down market, could become harder to value or sell at a fair price. The use of derivatives for hedging and other strategic transactions may increase the volatility of a fund and, if the transaction is not successful, could result in a significant loss to a fund.

#### **Equity Securities Risk**

Stock markets are volatile, and the price of equity securities such as common and preferred stocks (and their equivalents) will fluctuate. The value of equity securities purchased by the fund could decline if the financial



condition of the companies in which the fund invests decline or if overall market and economic conditions deteriorate.

#### **Emerging Markets Risk**

The prices of securities issued by foreign companies and governments located in developing/emerging markets countries may be affected more negatively by inflation, devaluation of their currencies, higher transaction costs, delays in settlement, adverse political developments, the introduction of capital controls, withholding taxes, nationalization of private assets, expropriation, social unrest, war or lack of timely information than those in developed countries.

#### **Exchange Traded Funds ("ETF"s) Risk**

Exchange Traded Funds are a type of investment company bought and sold on a securities exchange. An ETF often represents a fixed portfolio of securities designed to track a particular market index. The risks of owning an ETF generally reflect the risks of owning the underlying securities the ETF is designed to track.

#### **Exchange-traded note (ETN) Risk**

ETNs are a type of unsecured, unsubordinated debt security that have characteristics and risks similar to those of fixed-income securities and trade on a major exchange similar to shares of ETFs. This type of debt security differs, however, from other types of bonds and notes because ETN returns are based upon the performance of a market index minus applicable fees, no period coupon payments are distributed, and no principal protections exist. The purpose of ETNs is to create a type of security that combines the aspects of both bonds and ETFs. The value of an ETN may be influenced by time to maturity, level of supply and demand for the ETN, volatility and lack of liquidity in underlying commodities or securities markets, changes in the applicable interest rates, changes in the issuer's credit rating and economic, legal, political or geographic events that affect the referenced commodity or security. The fund's decision to sell its ETN holdings also may be limited by the availability of a secondary market. If the fund must sell some or all of its ETN holdings and the secondary market is weak, it may have to sell such holdings at a discount. If the fund holds its investment in an ETN until maturity, the issuer will give the fund a cash amount that would be equal to principal amount (subject to the day's index factor). ETNs also are subject to counterparty credit risk and fixed income risk.

#### **European Union Risk**

Many countries in the European Union are susceptible to high economic risks associated with high levels of debt, notably due to investments in sovereign debts of European countries such as Greece, Italy, Portugal and Spain. One or more member states might exit the European Union, placing its currency and banking system in jeopardy. The European Union faces major issues involving its membership, structure, procedures and policies, including the adoption, abandonment or adjustment of the new constitutional treaty, the European Union's enlargement to the south and east, and resolution of the European Union's problematic fiscal and

democratic accountability. Efforts of the member states to further unify their economic and monetary policies may increase the potential for the downward movement of one member state's market to cause a similar effect on other member states' markets. European countries that are part of the European Economic and Monetary Union may be significantly affected by the tight fiscal and monetary controls that the union seeks to impose on its members.

#### **Foreign Securities Risk**

Foreign securities involve special risks, including potentially unfavorable currency exchange rates, limited government regulation (including less stringent investor protection and disclosure standards) and exposure to possible economic, political and social instability. To the extent the fund invests in emerging market countries, its foreign securities risk will be higher.

#### **Fund of Funds Risk**

A fund of funds invests in a number of underlying funds. A fund of fund's ability to achieve its investment objective will depend largely on the ability of its investment manager to select the appropriate mix of underlying funds and on the underlying funds ability to meet their investment objectives. A fund of funds is subject to the same risks as the underlying funds in which it invests. Each fund of funds bears its own expenses and indirectly bears its proportionate share of expenses of the underlying funds in which it invests.

#### **Fixed-Income Securities Risk**

Fixed-income securities or bonds are subject to credit risk and interest rate risk. The credit rating of bonds in the fund could be downgraded or the issuer of a bond could default on its obligations. In general, lower-rated fixed-income securities involve more credit risk. When interest rates rise, bond prices generally fall.

#### **Growth Stock Risk**

Because growth securities typically make lower dividend payments or do not make dividend payments at all, investment returns are based on capital appreciation, making returns dependent on market increases and decreases. The market prices of growth stocks are highly sensitive to future earnings expectations. Growth stocks may therefore be more volatile than non-growth stocks.

#### **High Yield Securities Risk**

Fixed-income securities that are not investment grade are commonly referred to as high yield securities or "junk bonds". These securities offer a potentially higher yield than other, higher rated securities, but they carry a greater degree of risk and are considered speculative by the major credit rating agencies.

#### **Inflation-protected Securities Interest Rate Risk**

Inflation-protected securities may react differently from other fixed income securities to changes in interest rates. Because interest rates on inflation-protected securities are adjusted for inflation, the values of these securities are not materially affected by inflation expectations. Therefore, the value

of inflation-protected securities are anticipated to change in response to changes in "real" interest rates, which represent nominal (stated) interest rates reduced by the expected impact of inflation. Generally, the value of an inflation-protected security will fall when real interest rates rise and will rise when real interest rates fall.

#### **Information Risk**

There is a risk that information used by the adviser to evaluate the social and environmental performance of issuers, industries, markets, sectors, and regions may not be readily available, complete, or accurate, which could negatively impact the adviser's ability to apply its social and environmental standards, which may negatively impact Fund performance. This may also lead the Fund to avoid investment in certain issuers, industries, markets, sectors, or regions.

#### **Initial Public Offerings ("IPO") Risk**

The fund is subject to the risks associated with purchases of shares issued in IPOs by companies that have little operating history as public companies. The market for IPO issuers has been volatile and share prices of certain newly-public companies have fluctuated in significant amounts over short periods of time.

#### **Interest Rate Risk**

Fixed-income securities are affected by changes in interest rates. When interest rates decline, the market value of fixed-income securities generally will increase. Conversely, when interest rates rise, the market value of fixed-income securities will generally decrease. The longer the remaining maturity of instruments held by the fund, the more sensitive the fund is to interest rate risk.

#### **Index Management Risk**

Certain factors may cause the fund to track its Index less closely. For example, the manager may select securities that are not fully representative of the Index, and the fund's transaction expenses, and the size and timing of its cash flows, may result in the fund's performance being different than that of its Index.

#### **Investment Style/Value Stock Risk**

The fund's investments in value stocks carry the risk that the market will not recognize a security's intrinsic value for a long time or that a stock believed to be undervalued may actually be appropriately priced. Under certain market conditions, value stocks have performed better during periods of economic recovery. During times when value investing is out of favor, the Fund may underperform other equity funds that use different investment styles.

#### **Large Cap Risk**

The fund's strategy of investing in large cap stocks carries the risk that in certain markets large cap stocks will underperform small cap or mid cap stocks.

#### **Leverage Risk**

The fund may engage in transactions, including the use of synthetic instruments and derivatives, which may give rise to a form of leverage. Leverage may cause the fund to be more volatile than if the fund had not been leveraged because leverage can exaggerate the effect of any increase or decrease in the value of securities held by the fund.

#### **Target Date Portfolio Risk**

A Target Date or Target Date Portfolio ("Fund") is a "fund of funds" which invests in a number of underlying funds. The Fund's ability to achieve its investment objective will depend largely on the ability of the subadvisor to select the appropriate mix of underlying funds and on the underlying funds' ability to meet their investment objectives. There can be no assurance that either a Fund or the underlying funds will achieve their investment objectives. A Fund is subject to the same risks as the underlying funds in which it invests. Each Fund invests in underlying funds which invest in fixed-income securities (including in some cases high yield securities) and equity securities, including foreign securities and engage in Hedging and Other Strategic Transactions. To the extent the Fund invests in these securities directly or engages in Hedging and Other Strategic Transactions, the Fund will be subject to the same risks. As a Fund's asset mix becomes more conservative, the fund becomes more susceptible to risks associated with fixed-income securities. For a more complete description of these risks, please review the underlying fund's prospectus, which is available upon request.

Each Target Date Portfolio has an associated target date based on the expected year in which participants in the portfolio plan to retire and no longer make contributions. The investment strategy of these Portfolios are designed to become more conservative over time as the Portfolio approaches (or if applicable passes) the target retirement date. The principal value of an investment in these Portfolios is not guaranteed at any time, including at or after the target date. Primary benchmarks are required to be broad based in nature. Custom benchmarks that proportionally reflect the actual equity and fixed-income holdings of the Fund may provide a better measure of performance comparison and can be found on the fund fact sheet for each respective Fund on the website. Click on the link found below each respective Fund to access each Fund's fund fact sheet.

#### **Lifestyle Portfolio Risk**

A Lifestyle Portfolio ("Fund") is a "fund of funds" which invests in a number of underlying funds. The Fund's ability to achieve its investment objective will depend largely on the ability of the subadvisor to select the appropriate mix of underlying funds and on the underlying funds' ability to meet their investment objectives. There can be no assurance that either a Fund or the underlying funds will achieve their investment objectives. A Fund is subject to the same risks as the underlying funds in which it invests, which include the following risks. Stocks can decline due to market, regulatory or economic developments. Investing in foreign securities is subject to certain risks not associated with domestic investing such as currency fluctuations and changes in political and economic conditions. The securities

of small capitalization companies are subject to higher volatility than larger, more established companies. High Yield bonds are subject to additional risks such as the increased risk of default (not applicable to Lifestyle Aggressive Portfolio). For a more complete description of these risks, please review the underlying fund's prospectus, which is available upon request. Diversification does not ensure against loss. Primary benchmarks are selected based on the asset mix of each individual Fund. Primary benchmarks are required to be broad based in nature. Custom benchmarks that proportionally reflect the actual equity and fixed-income holdings of the Fund may provide a better measure of performance comparison and can be found on the fund fact sheet for each respective Fund on the website. Click on the link found below each respective Fund to access each Fund's fund fact sheet.

#### **Mortgage-Backed and Asset-Backed Securities Risk**

When interest rates fall, homeowners are more likely to prepay their mortgage loans. An increased rate of prepayments on the fund's mortgage-backed securities will result in an unforeseen loss of interest income to the fund as the fund may be required to reinvest assets at a lower interest rate. Asset-backed securities include interests in pools of debt securities, commercial or consumer loans, or their receivables. The value of these securities depends on many factors, including changes in interest rates, the availability of information concerning the pool and its structure, the credit quality of the underlying assets, the market's perception of the servicer of the pool, and any credit enhancement provided. In addition, asset-backed securities have prepayment risks similar to mortgage-backed securities.

#### **Mid Cap Stock Risk**

Investments in mid-cap companies are subject to more erratic price movements than investments in larger, more established companies. In particular, mid-sized companies may pose greater risk due to narrow product lines, limited financial resources, less depth in management or a limited trading market for their securities.

#### **Non-Diversification Risk**

A fund that is non-diversified may invest a high percentage of its assets in the securities of a small number of issuers. This approach may result in more volatile performance relative to more diversified funds. The less diversified a fund's holdings are, the more a specific security's poor performance is likely to affect the fund's performance.

#### **Risks Relating to John Hancock**

The fund invests a portion of its assets (including cash and cash equivalents) in a separate account of John Hancock Life & Health Insurance Company (JHLH). The fund's right to receive payments for the benefit of, and its ability to distribute payments to, plan participants depends on the timely liquidation of separate account assets. While an insolvency of JHLH should not diminish the assets of the Separate Account, it could delay the timing of payments to plan participants. Because the fund invests in the separate

account, the value of the fund and its ability to honor withdrawal requests from plan participants depends, in part, on the performance of JHLH.

#### **Sector Risk**

When a fund's investments are concentrated in a particular industry or sector of the economy (e.g., real estate, technology, financial services), they are not as diversified as the investments of most mutual funds and are far less diversified than the broad securities markets. Funds concentrating in a particular industry sector tend to be more volatile than other mutual funds, and the values of their investments tend to go up and down more rapidly. A fund that invests in a particular industry or sector is particularly susceptible to the impact of market, economic, regulatory and other factors affecting that industry or sector.

#### **Small Cap Stock Risk**

The fund's investments in smaller companies are subject to more erratic price movements than investments in larger, more established companies. Small cap companies may be developing or marketing new products or services for which markets are not yet and may never become established. Although small, unseasoned companies may offer greater opportunities for capital growth than larger, more established companies, they also involve greater risks and should be considered speculative.

#### **Small/Mid Cap Stock Risk**

The fund's investments in small-cap and mid-cap companies are subject to more erratic price movements than investments in larger, more established companies. In particular, mid-sized companies may pose greater risk due to narrow product lines, limited financial resources, less depth in management or a limited trading market for their securities. Similarly, small cap companies may be developing or marketing new products or services for which markets are not yet and may never become established. While small, unseasoned companies may offer greater opportunities for capital growth than larger, more established companies, they also involve greater risks and should be considered speculative.

#### **Short Sale Risk**

The fund may sell a security that it does not own. A fund will lose money if the price of the security which it has sold short increases between the time of the short sale and the date when the fund acquires the security sold short.

#### **Stabilizing Agreement Risk**

The Trustee for the Fund and John Hancock Life & Health Insurance Company (JHLH) each endeavor to maintain one or more Stabilizing Agreements with Stability Provider(s) in an attempt to maintain the book value of both the Fund and the separate account. The obligations of each Stability Provider are general, unsecured obligations of such Stability Provider. Default by a Stability Provider could result in participant withdrawals from the fund at less than book value. Neither the Trust nor John Hancock is a Stability Provider and neither guarantees the book

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value of the fund or the ability of any Stability Provider to guarantee such amounts. The fund expects that the use of Stabilizing Agreements will (when combined with any benefit responsive contracts and short-term investments held in other sub-accounts), under most circumstances, permit the Fund to maintain a stable book value of \$1.00 per Unit of the Trust. However, the default of a Stability Provider and an inability to obtain a replacement Stabilizing Agreement could render the fund unable to achieve its objective of maintaining a stable book value of \$1.00 per Unit of the Trust. There are a limited number of potential Stability Providers. Should Stabilizing Agreements become unavailable or should other conditions (such as cost or creditworthiness) render their purchase and/or maintenance inadvisable, JHLH may elect not to cover some or all of the assets in the separate account with Stabilizing Agreement(s).

#### **Turnover Risk**

Active and frequent trading of fund securities results in a high fund turnover rate. Funds with high turnover rates often have higher transaction costs, which are paid by the fund, that may have an adverse impact on fund performance, and may generate short-term capital gains on which taxes may be imposed.

#### **Target Allocation**

Target Allocation Risk is the risk that a fund could lose money as a result of less than optimal or poor asset allocation decisions. From time to time, one or more of the underlying funds may experience relatively large redemptions or investments due to reallocations or re-balancings of the assets of a portfolio, which could affect the performance of the underlying funds and, therefore, the performance of the portfolio.

#### **Target Date**

There is no guarantee that the subadviser will correctly predict the market or economic conditions and, as with other mutual fund investments, you could lose money even if the fund is at or close to its designated retirement year or in its post-retirement stage.

#### **U.S. Government Securities Risk**

U.S. government securities do not involve the degree of credit risk associated with investments in lower quality fixed-income securities. As a result, the yields available from U.S. government securities are generally lower than the yields available from many other fixed-income securities. These securities, like other fixed-income securities, are subject to interest rate risk.



To obtain group annuity investment option Fund sheets and prospectuses for each sub-account's underlying investment vehicle call 1-800-395-1113. These documents contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying investment vehicle, which should be carefully considered. Please read these documents carefully prior to investing.

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# Important information about Target Date Funds

## Retirement planning based on your age and retirement date

A type of designated investment alternative (DIA) available to you through your qualified retirement plan is called a Target Date Fund (TDF). Below is a general description of how a TDF may be managed. For details about the TDFs available to you, review the Fund sheets associated with each TDF as they may have unique objectives, characteristics, fees and expenses.

### How to access a Fund sheet

Fund sheets are accessible from the URL that is listed under the Fund's name in the ICC section of this notice, or on the "Investment Options" page of John Hancock's participant website. It's important that you review the information on a Fund sheet before making any investment decisions.

### How Target Date portfolios work

Generally, a target date Fund (TDF) is a type of Fund that rebalances its asset allocation and risk levels on an ongoing basis, with an objective of becoming more conservative over time as the target date approaches. The target date is referred to as the date at which the investor expects to retire and cease making new contributions to the Fund. The asset mix within these Funds can be a combination of investment products like stocks, bonds and mutual funds. In most cases, the weighting of these components will shift over time, from a higher concentration in equities to a higher concentration in fixed income as the target date nears.

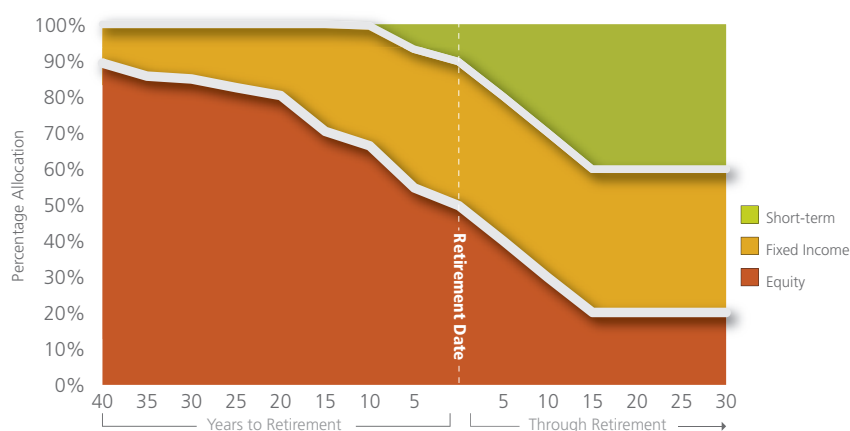
The process by which the Fund shifts from being more aggressive to becoming more conservative over time is captured in the glide path shown below. As the TDF 'glides' over time, its asset mix is adjusted based on the target date, for example:

- If the TDF seeks high total return **up to** its target date, its asset allocation will have a higher correlation to fixed income as the retirement date approaches, and its most conservative point on the glide path occurs at the retirement date.
- If the TDF seeks high total return **through** its target date, its asset allocation will have a higher relation to equities up to and through the retirement date, and its most conservative point on the glide path occurs many years after the retirement date.

To learn more about each TDF offered through your plan, please review the information provided on the Funds sheets.

### Things to consider when reviewing glide-paths

- 1 What is the Fund's equity to fixed income ratio as the glide path approaches and then surpasses the target date?
- 2 When does the glide path reach its most conservative point?
- 3 What exposure to equities matches your risk tolerance in the years leading up to retirement and in retirement?





## Other important notes on TDFs

- They are regularly rebalanced by asset allocation professionals to maintain an investment mix that reflects each Fund's strategy according to its target date.
- They can be invested in actively managed or index Funds. An actively managed Fund is monitored by a team of investment professionals that decide how to adjust the Fund's holdings based on analytical research, forecasts and experience. Index Funds are constructed to track the components of a market index and are said to provide lower operating expenses and lower portfolio turnover.
- **Assumptions:** In developing the glide path, certain assumptions are also made about the participant's ongoing contributions during the years leading up to retirement, as well as when they would stop making those contributions when the target date is reached. Refer to TDF Fund sheets for details about these assumptions.

## How do I know if a TDF is right for me?

Generally, TDFs are selected by participants who want:

- One-step Diversification
- A team of asset allocation professionals that rebalance and adjust the portfolio.
- A Fund that is both risk and age appropriate based on the participant's retirement date and the Fund's strategy.

If this sounds like you, then you may want to consider a TDF. However, if you prefer to personally select and rebalance your portfolio, or if you want less exposure to equities in the years leading up to retirement, a TDF may not be right for you. Speak to your financial representative if you have questions about target date Funds.

## Selecting a TDF

If you've decided on a TDF and know which TDF option is right for you, you'll then need to decide on which portfolio to invest in. This selection is based on birth year, i.e., you select the TDF that best matches your date of birth and desired retirement age.

**For example,** Joe was born in 1971.

Looking at the years available for the suites of TDFs available, the Fund with a target date of **2040** is selected.

BIRTH YEAR	NAME OF FUND BASED ON TARGET DATE
1986 or later	2055 Fund
1981 – 1985	2050 Fund
1976 – 1980	2045 Fund
<b>1971 – 1975</b>	<b>2040 Fund</b>
1966 – 1970	2035 Fund
1961 – 1965	2030 Fund
1956 – 1960	2025 Fund
1951 – 1955	2020 Fund
1946 – 1950	2015 Fund
1945 or earlier	2010 Fund

## Important Considerations

When making investment decisions, it's important to carefully consider your personal circumstances, current savings, monthly earnings and retirement lifestyle goals and risk profile. The principal value of your investment in any TDF, as well as your potential rate of return, are not guaranteed at any time, including at or after the target retirement date. Also, neither asset allocation nor diversification ensures a profit or protection against a loss. These TDFs can suffer losses at any time (including near, at, or after the target retirement date), and there is no guarantee that any of them will provide adequate income at and through your retirement.



**To obtain group annuity investment option Fund sheets and prospectuses for each sub-account's underlying investment vehicle call 1-800-395-1113. These documents contain complete details on investment objectives, risks, fees, charges and expenses as well as other information about the underlying investment vehicle, which should be carefully considered. Please read these documents carefully prior to investing.**

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A Target Date Portfolio is subject to the same risks as the underlying funds in which it invests, which include the following risks. Stocks can decline due to market, regulatory or economic development. Investing in foreign securities is subject to certain risks not associated with domestic investing, such as currency

fluctuations and changes in political and economic conditions. The securities of small capitalization companies are subject to higher volatility than those of larger, more established companies. For additional information on these and other risk considerations, please see the prospectus for the sub-accounts' underlying mutual fund portfolio.

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