
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2019

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number 1-16725

PRINCIPAL FINANCIAL GROUP, INC.

(Exact name of Registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

**711 High Street,
Des Moines, Iowa 50392**
(Address of principal executive offices)

42-1520346
(I.R.S. Employer
Identification Number)

(515) 247-5111

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.01	PFG	Nasdaq Global Select Market

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes No

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer", "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act.) Yes No

As of January 31, 2020, there were outstanding 274,687,952 shares of Common Stock, \$0.01 par value per share of the Registrant.

The aggregate market value of the shares of the Registrant's common equity held by non-affiliates of the Registrant was approximately \$16.1 billion based on the closing price of \$57.92 per share of Common Stock on June 28, 2019.

Documents Incorporated by Reference

The information required to be furnished pursuant to Part III of this Form 10-K is set forth in, and is hereby incorporated by reference herein from, the Registrant's definitive proxy statement for the annual meeting of stockholders to be held on May 19, 2020, to be filed by the Registrant with the United States Securities and Exchange Commission pursuant to Regulation 14A not later than 120 days after the year ended December 31, 2019.

**PRINCIPAL FINANCIAL GROUP, INC.
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NOTE CONCERNING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K, including the Management's Discussion and Analysis of Financial Condition and Results of Operations, contains statements that constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including statements relating to trends in operations and financial results and the business and the products of the Registrant and its subsidiaries, as well as other statements including words such as "anticipate," "believe," "plan," "estimate," "expect," "intend" and other similar expressions. Forward-looking statements are made based upon management's current expectations and beliefs concerning future developments and their potential effects on us. Such forward-looking statements are not guarantees of future performance.

Actual results may differ materially from those included in the forward-looking statements as a result of risks and uncertainties. Those risks and uncertainties include, but are not limited to, the risk factors listed in Item 1A. "Risk Factors."

PART I

Item 1. Business

Principal Financial Group, Inc. ("PFG") is a leader in global investment management offering businesses, individuals and institutional clients a wide range of financial products and services, including retirement, asset management and insurance through our diverse family of financial services companies. We had \$735.3 billion in assets under management ("AUM") as of December 31, 2019.

Our global asset management businesses serve a broad range of investors worldwide. We provide long-term investment strategies to institutional, retirement, high net worth and retail clients by offering a range of capabilities including equity, fixed income, real estate and other alternative investments, as well as fund offerings.

In the U.S., we offer a broad array of retirement and employee benefit solutions and individual insurance solutions to meet the needs of the business owner and their employees. We are a leading provider of corporate defined contribution plans. We are also a leading employee stock ownership plan ("ESOP") consultant. In addition, we are a leading provider of nonqualified plans, defined benefit plans and plan termination annuities. We are also one of the largest providers of specialty benefits insurance product solutions. We believe small and medium-sized businesses are an underserved market, offering attractive growth opportunities in the retirement and employee benefit markets.

Additionally, we believe we have a significant opportunity to leverage our U.S. retirement expertise in select international markets that have adopted or are moving toward private sector defined contribution pension systems. Our international asset management and accumulation businesses focus on the opportunities created as aging populations around the world drive increased demand for retirement accumulation, retirement asset management and retirement income management solutions.

Our Reportable Segments

We organize our businesses into the following reportable segments:

- Retirement and Income Solutions;
- Principal Global Investors;
- Principal International and
- U.S. Insurance Solutions.

We also have a Corporate segment, which consists of the assets and activities that have not been allocated to any other segment.

See Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 16, Segment Information" for financial results of our segments.

Retirement and Income Solutions Segment

Our asset accumulation activities in the U.S. date back to the 1940s when we first began providing pension plan products and services. We now offer a comprehensive portfolio of products and services for retirement savings and retirement income:

- To businesses of all sizes, we offer products and services for defined contribution plans, including 401(k) and 403(b) plans, defined benefit plans, nonqualified executive benefit plans, ESOP services and pension risk transfer services. For more basic retirement services, we offer SIMPLE Individual Retirement Accounts ("IRA") and payroll deduction plans;
- To large institutional clients, we also offer investment only products, including investment only guaranteed investment contracts ("GICs");
- To employees of businesses and other individuals, we offer the ability to accumulate savings for retirement and other purposes through mutual funds, individual annuities and bank products; and
- Through our recent acquisition of the Institutional Retirement & Trust ("IRT") business of Wells Fargo Bank, N.A. ("Acquired Business"), we now offer trust and custody services for non-retirement businesses. For further details relating to the Acquired Business, see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations - Transactions Affecting Comparability of Results of Operations."

We organize our Retirement and Income Solutions operations into two business groupings:

- Retirement and Income Solutions — Fee: includes full service accumulation, trust services, individual variable annuities and the Acquired Business, including related acquisition and integration expenses; and
- Retirement and Income Solutions — Spread: includes individual fixed annuities, investment only, pension risk transfer and banking services.

Retirement and Income Solutions — Fee

Full Service Accumulation

We offer a wide variety of investment and administrative products and services for defined contribution plans, including 401(k) and 403(b) plans; defined benefit plans; nonqualified executive benefit plans and ESOPs.

Products

Full service accumulation products respond to the needs of plan sponsors seeking both administrative and investment services for defined contribution plans or defined benefit plans. The investment component of both the defined contribution and defined benefit plans may be in the form of a guaranteed account, separate account, a mutual fund offering or a collective investment trust. In addition, defined contribution plan sponsors may also offer their own employer securities as an investment option under the plan.

We deliver both administrative and investment services to our defined contribution plan and defined benefit plan customers through annuity contracts, collective investment trusts and mutual funds. Group annuity contracts and collective investment trusts used to fund qualified plans are not required to be registered with the United States Securities and Exchange Commission (“SEC”). Our mutual fund service platform is called Principal Advantage. It is a qualified plan service package based on our series mutual fund, Principal Funds, Inc. (“PFI”). We offer investments covering the full range of stable value, equity, fixed income, real estate and international investment options managed by our Principal Global Investors segment as well as third party asset managers. In addition, full service accumulation offers plan sponsors trust services through an affiliated trust company.

As of December 31, 2019, excluding the Acquired Business, we provided full service accumulation products to (a) over 38,400 defined contribution plans including \$236.2 billion in assets and covering 5.6 million eligible plan participants, and (b) to 2,000 defined benefit plans, including \$21.6 billion in assets and covering over 334,000 eligible plan participants. As of December 31, 2019, approximately 47% of our full service accumulation account values were managed by our Principal Global Investors segment, 38% were managed entirely by the third party asset managers that were not under contract to sub-advise a PFG product, 8% were sub-advised and 7% represented employer securities.

Markets and Distribution

We offer our full service accumulation products and services to plans, including qualified and nonqualified defined contribution plans and defined benefit plans. These products and services are offered to all businesses with an emphasis on plans sponsored by small and medium-sized businesses, which we believe remains under-penetrated. We distribute our full service accumulation products and services nationally, primarily through a captive retirement services sales force. As of December 31, 2019, 81 retirement services sales representatives in 40 offices, operating as a wholesale distribution network, maintained relationships with over 12,700 independent advisors, consultants and agents. Retirement services sales representatives are an integral part of the sales process alongside the referring consultant or independent advisor. We compensate retirement services sales representatives through a blend of salary and production-based incentives, while we administer, on behalf of the plan, payments to independent advisors, consultants and agents a commission or fee.

As of December 31, 2019, we had a separate staff of over 230 service and education specialists located across the U.S. These specialists play a key role in the ongoing servicing of plans by providing local services to our customers, such as reviewing plan performance, investment options and plan design; communicating the customers' needs and feedback to us and helping employees understand the benefits of their plans. The following summarizes our distribution channels:

- We distribute our annuity-based products through intermediaries who are primarily state licensed individuals.

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- Principal Advantage platform is targeted at defined contribution plans through broker-dealer distribution channels. Principal Advantage gives us access to Financial Industry Regulatory Authority (“FINRA”)-registered distributors who are not traditional sellers of annuity-based products and broadens opportunities for us in the investment advisor and broker-dealer distribution channels.
- Through our Retire Secure strategy we provide financial education and other assistance to individual investors who are participants/members of employer-based accumulation solutions to help them achieve financial security.

We believe our approach to full service accumulation plan services distribution, which gives us a local sales and service presence, along with our offering of Total Retirement Suite differentiates us from many of our competitors. We have also established a number of marketing and distribution relationships to increase the sales of our products and services.

Institutional Retirement & Trust

Acquired July 1, 2019, the IRT business includes defined contribution, defined benefit, executive deferred compensation, employee stock ownership plans, institutional trust and custody and institutional asset advisory businesses. As of December 31, 2019, the IRT business had \$898.2 billion in assets under administration, serviced by employees in five primary locations across the United States, along with locations in the Philippines and India, and covered approximately 4,600 plans and over 2.9 million recordkeeping participants. Throughout the next 18 months, we, along with Wells Fargo Bank, N.A., will be working together to integrate staff and systems to support the migration of the IRT customers, which is expected to begin in late 2020 and continue into 2021. During this timeframe, Wells Fargo Bank, N.A. will continue to service the customer base and operate under a transition services agreement. Once combined we will offer a range of capabilities to meet the needs of a broad array of customer segments with comprehensive retirement, trust and custody and discretionary asset allocation offerings.

Individual Variable Annuities

Individual variable annuities, which are savings vehicles through which the customer makes one or more deposits of varying amounts and intervals, are offered to individuals.

Products

Our individual variable deferred annuities provide customers with the flexibility to allocate their deposits to mutual funds managed by the Principal Global Investors segment or unaffiliated third party asset managers. As of December 31, 2019, 93% of our \$10.1 billion in variable annuity account balances was allocated to mutual funds managed by the Principal Global Investors segment and our guaranteed option. The remaining 7% was allocated to mutual funds managed by unaffiliated third party asset managers. Generally speaking, the customers bear the investment risk for the variable options and have the right to allocate their assets among various separate mutual funds. The value of the annuity fluctuates in accordance with the experience of the mutual funds chosen by the customer. Customers have the option to allocate all or a portion of their account to our guaranteed option, in which case we credit interest at rates we determine, subject to contractual minimums.

Customers may elect a living benefit guarantee (commonly known in the industry as a guaranteed minimum withdrawal benefit, or “GMWB”). We bear the GMWB investment risk. Our goal is to hedge the GMWB investment risk through the use of sophisticated risk management techniques. As of December 31, 2019, \$7.0 billion of the \$9.7 billion of variable annuity separate account values had the GMWB rider. Our major source of revenue from individual variable annuities is mortality and expense fees we charge to the customer, generally determined as a percentage of the market value of the assets held in a separate investment sub-account. Account balances of variable annuity contracts with the GMWB rider were invested in separate account investment options as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
Balanced funds	\$ 6,739.5	\$ 5,902.3
Equity funds	179.3	186.1
Bond funds	99.7	103.2
Money market funds	4.6	4.4
Specialty funds	1.0	1.0
Total	<u>\$ 7,024.1</u>	<u>\$ 6,197.0</u>
Percent of total variable annuity separate account values	<u>72 %</u>	<u>71 %</u>

Markets and Distribution

Our target markets for individual variable annuities include owners, executives and employees of small and medium-sized businesses and individuals seeking to accumulate and/or eventually receive distributions of assets for retirement. We market variable annuities to individuals for both qualified and nonqualified retirement savings.

We sell our individual variable annuity products through our affiliated financial representatives, including Principal Connection, who collectively accounted for 96%, 97% and 97% of annuity sales for the years ended December 31, 2019, 2018 and 2017, respectively. The remaining sales were made primarily through unaffiliated broker-dealer firms. Principal Connection is our direct distribution channel for retail financial services products to individuals. Principal Connection's services are available by phone, email or mail. Affiliated financial representatives continue to be the primary distribution channel of our variable deferred annuities.

Retirement and Income Solutions – Spread

Individual Fixed Annuities

Individual fixed annuities may be categorized in two ways: (1) deferred, in which case assets accumulate until the contract is surrendered, the customer dies or the customer begins receiving benefits under an annuity payout option, or (2) payout, in which case payments are made for a fixed period of time or for life.

Products

Fixed Deferred Annuities. Our individual fixed deferred annuities consist of both single premium deferred annuity contracts and flexible premium deferred annuity contracts (“FPDAs”). The majority of FPDA contracts limit the period of time deposits are allowed to one year. For certain contracts, the principal amount is guaranteed. We credit the customer’s account with a fixed interest rate for a specified number of years. Thereafter, we reset the interest rate credited to the contract based upon our discretion, subject to contractual minimums, by taking into account market and other conditions. We also offer a fixed deferred annuity where the interest credited is linked to an external equity index, subject to maximum and minimum values. One source of income from fixed deferred annuities is the difference between the investment income earned on the underlying general account assets and the interest rate credited to the contracts. We bear the investment risk because, while we credit customers’ accounts with a stated interest rate, we cannot be certain the investment income we earn on our general account assets will exceed that rate. The Principal Global Investors segment manages the assets supporting these contracts.

Fixed Income Annuities. Our individual fixed income annuities consist of single premium immediate annuity contracts (“SPIAs”) and deferred income annuity contracts (“DIAs”). SPIAs and DIAs are products where the customer pays a premium in return for periodic benefit payments. SPIA payments begin immediately and DIA payments begin after a deferral period, during which a return-of-premium death benefit is included. Payments may be contingent upon the survival of one or two individuals or payments may be fixed, meaning payments are contractually guaranteed and do not depend on the continuing survival of any individual. Our major source of income from fixed immediate annuities is the difference between the investment income earned on the underlying general account assets and the interest rate implied in the calculation of annuity benefit payments. We bear the investment risk because we cannot be certain the investment income we earn on our general account assets will exceed the rate implied in the SPIA and DIA contracts. The Principal Global Investors segment manages the assets supporting these contracts.

Markets and Distribution

Our target markets for individual fixed annuities include owners, executives and employees of small and medium-sized businesses and individuals seeking to accumulate and/or eventually receive distributions of assets for retirement. We market fixed annuities to individuals for both qualified and nonqualified retirement savings.

We sell our individual fixed annuity products through our affiliated financial representatives, including Principal Connection, who collectively accounted for 8%, 7% and 7% of annuity sales for the years ended December 31, 2019, 2018 and 2017, respectively. The remaining sales were made through banks, brokerage general agencies, mutual fund companies and unaffiliated broker-dealer firms. The majority of overall annuity sales were from non-affiliated distribution channels, as a result of focused efforts to increase fixed annuity sales through these channels.

Investment Only

Products

The two primary products for which we provide investment only services are GICs and funding agreements.

GICs and funding agreements pay a specified rate of return. The rate of return can be a floating rate based on an external market index or a fixed rate. Our investment only products contain provisions disallowing or limiting early surrenders, including penalties for early surrenders and minimum notice requirements.

Deposits to investment only products are predominantly in the form of single payments. As a result, the level of new deposits can fluctuate from one fiscal quarter to another. The amounts earned by us are derived in part from the difference between the investment income earned by us and the amount credited to the customer. The Principal Global Investors segment manages the assets supporting the contractual promises.

Markets and Distribution

We issue traditional GICs and funding agreements primarily to retirement plan sponsors and other institutions. We also offer GICs as part of our full service accumulation products which are issued primarily to tax-qualified retirement plans. Funding agreements are issued directly to non-qualified institutions, the Federal Home Loan Bank of Des Moines (“FHLB Des Moines”) and unconsolidated special purpose entities. As part of our funding agreement-backed note programs, U.S. and foreign institutional investors purchase debt obligations from the special purpose entity which, in turn, purchases the funding agreement from us with terms similar to those of the debt obligations. The strength of this market is dependent on debt capital market conditions. As a result, our sales through this channel can vary widely from one quarter to another.

Pension Risk Transfer

Products

Pension risk transfer products respond primarily to the needs of pension plan sponsors in the form of single premium group annuities, which are immediate or deferred annuities that provide a current or future specific income amount, fully guaranteed by us. The majority of our business originates from defined benefit plans that are being terminated. In these situations, the plan sponsor transfers all its obligations under the plan to an insurer by paying a single premium. Generally, plan sponsors restrict their purchases to insurance companies with superior or excellent financial quality ratings because the Department of Labor (“DOL”) has mandated that annuities be purchased only from the “safest available” insurers.

Since premium received from pension risk transfer products is generally in the form of single payments, the level of premiums can fluctuate depending on the number of large-scale annuity sales in a particular quarter. The Principal Global Investors segment manages the assets supporting pension risk transfer account values.

Markets and Distribution

Our primary distribution channel for pension risk transfer products is comprised of several specialized home office sales consultants working through consultants and brokers that specialize in this type of business. Our sales consultants also make sales directly to institutions. Our nationally dispersed retirement services sales representatives act as a secondary distribution channel for these products.

Banking Services

IRAs are provided by Principal Bank, primarily funded by retirement savings rolled over from qualified retirement plans. Principal Bank is a U.S. federal savings bank that was formed in February 1998. As of December 31, 2019, Principal Bank had nearly 446,000 customers and approximately \$3.8 billion in assets. Principal Bank operates under a limited purpose charter and may only accept deposits held in a fiduciary capacity, may not hold demand deposits or own commercial loans and cannot originate loans.

Products

The IRAs offered by Principal Bank provide Federal Deposit Insurance Corporation (“FDIC”)-insured retirement solutions for its customers. The IRAs are held in savings accounts, money market accounts and certificates of deposit. The deposit products provide a relatively stable source of funding and liquidity for Principal Bank and are backed by purchases of investment securities and residential mortgage loans.

Markets and Distribution

Principal Bank offers bank products and services to participants rolling out of qualified retirement plans primarily serviced by affiliates of PFG. Principal Bank services customers by telephone, mail and internet and offers digital advice services through our subsidiary, Principal Advised Services.

Principal Global Investors Segment

Our Principal Global Investors segment manages assets for sophisticated investors around the world using focused investment teams that provide diverse investment capabilities including equity, fixed income, real estate and other alternative investments. We also have experience in asset allocation, stable value management and other structured investment strategies. We focus on providing services to our other segments in addition to our retail mutual fund and third party institutional clients. We maintain offices in Australia, Brazil, China, France, Germany, Hong Kong, Ireland, Italy, Japan, Luxembourg, the Netherlands, Portugal, Singapore, Spain, Switzerland, the United Arab Emirates, the United Kingdom and the United States.

We deliver our products and services through our network of focused investment teams including Principal Global Equities; Principal Global Fixed Income (including Finisterre emerging market debt teams); Aligned Investors; Principal Real Estate Investors, LLC; Principal Real Estate Europe Limited; Spectrum Asset Management, Inc.; Post Advisory Group, LLC; Columbus Circle Investors; Edge Asset Management; Claritas Administração de Recursos Ltda. (“Claritas”); Origin Asset Management LLP and Principal Portfolio Strategies. The Principal Global Investors focused investment teams managed \$458.6 billion in assets as of December 31, 2019.

We have been providing mutual funds to customers since 1969. We offer mutual funds to individuals, businesses and institutional investors for use within variable life contracts, variable annuity contracts and employer-sponsored pension plans; as a rollover investment option and for general investment purposes. We plan to grow into a top advisor-sold mutual fund company with a sales force focused on multiple channels. As of December 31, 2019, as reported by the Strategic Insight, we are ranked 17th according to AUM (long-term funds) of the intermediary sold mutual fund companies.

We also maintain various other domestic and global fund platforms, separately managed accounts and segregated accounts for some larger institutional and retail investors.

Our products and services are provided for a fee as defined by client mandates. Our fees are generally driven by AUM.

Focused Investment Teams

Our focused investment team strategy is diversified across the following primary asset classes and service delivery options.

Equity Investments. As of December 31, 2019, Principal Global Equities, Aligned Investors and Principal Real Estate Investors, LLC along with Columbus Circle Investors, Edge Asset Management, Origin Asset Management LLP and Claritas managed \$185.4 billion in global equity assets. Our equity capabilities encompass large-cap stocks, mid-cap stocks, small-cap stocks and real estate investment trusts in developed and emerging markets worldwide.

Fixed Income Investments. As of December 31, 2019, Principal Global Fixed Income and Principal Real Estate Investors, LLC along with Spectrum Asset Management, Inc. and Post Advisory Group, LLC managed \$208.4 billion in global fixed income assets. Collectively, our experience in fixed income management spans multiple economic and credit market cycles and encompasses all major fixed income security types and sectors, including commercial mortgage-backed securities (“CMBS”). Our research and risk management capabilities in worldwide debt markets provide a strong foundation for broadly diversified “multi-sector” portfolios, tailored to specific client objectives.

Real Estate and Other Alternative Investments. We offer products and services through other alternative asset classes including managing private real estate equity through Principal Real Estate Investors, LLC and Principal Real Estate Europe Limited; managing commercial mortgages and bridge/mezzanine loans through Principal Real Estate Investors, LLC and managing real estate and timber investments through Claritas. As of December 31, 2019, we managed \$60.6 billion in alternative asset classes.

Principal Portfolio Strategies. Principal Portfolio Strategies is a specialized asset allocation investment team offering multi-asset and/or multi-manager portfolio construction services that aim to deliver reliable, risk-adjusted investment outcomes to individual investors, institutional investors and participants in employer-sponsored plans.

Products and Services

Products offered by the Principal Global Investors segment include individually managed accounts, separately managed accounts for high net worth individuals and several fund platforms for retail and institutional investors, as described below.

Principal Funds, Inc. PFI is a series mutual fund that offers investment options for defined contribution plans, individuals, institutional investors, adviser fee-based programs, and other retirement plan clients. We report the results for this fund in the Retirement and Income Solutions segment or Principal Global Investors segment based on the distribution channel associated with the AUM.

Principal Variable Contracts Funds, Inc. Principal Variable Contracts Funds, Inc. is a series mutual fund that provides investment options for variable annuity and variable life insurance contracts issued by the Principal Life Insurance Company (“Principal Life”) and other insurance companies not affiliated with Principal Life. AUM backing our variable annuity contracts is reported in the Retirement and Income Solutions segment. AUM backing our variable life insurance contracts is reported in the U.S. Insurance Solutions segment.

Other Principal Global Investors Funds. Principal Global Investors maintains various fund platforms including Qualifying Investor Alternative Fund and Undertaking for Collective Investment in Transferable Securities funds domiciled in Dublin, Business Trusts, Exchange Traded Funds and other focused investment team sponsored funds. These funds are generally managed by our focused investment teams.

Markets and Distribution

Our products and services are distributed through various channels to reach and meet the needs of a broad investor base. We distribute our services through institutional and retail sales representatives, relationship management, and client service professionals who work with consultants and directly with investors to acquire and retain institutional clients, retail clients and other investors. We also maintain relationships with independent broker-dealers to distribute our products and services, maintaining relationships with over 81,000 independent brokers, consultants and agents. As of December 31, 2019, Principal Global Investors and its focused investment teams had over 750 third party institutional clients in 40 countries with \$111.0 billion of AUM.

Principal International Segment

Our Principal International segment has operations in Latin America and Asia. We focus on locations with growing middle classes, favorable demographics and increasing long-term savings, ideally with defined contribution retirement markets. We entered these locations through acquisitions, start-up operations and joint ventures.

The activities of our Principal International segment reflect our efforts to accelerate the growth of our AUM by capitalizing on the international trend toward private sector defined contribution pension systems and individual long-term savings. We offer pension accumulation products and services, mutual funds, asset management, income annuities and life insurance accumulation products.

Markets, Products and Distribution

Latin America

Brazil. We offer pension accumulation and income annuity products through a co-managed joint venture, Brasilprev Seguros e Previdência S.A. (“Brasilprev”). We owned 25.005% of the economic interest and 50.01% of the voting shares as of December 31, 2019. The partner is Banco do Brasil (“Banco”), which had approximately 4,300 Brazilian branches as of September 30, 2019.

Brasilprev has the exclusive distribution rights of its pension accumulation and income annuity products through the Banco network until October 2032. Our joint venture provides products for the retirement needs of individuals and employers. Banco's employees sell these products directly to individual clients through its bank branches. In addition, our joint venture reaches corporate clients through two wholesale distribution channels: (1) a network of independent brokers who sell to the public and (2) Banco's corporate account executives who sell to existing and prospective corporate clients. As of December 31, 2019, Brasilprev had \$74.2 billion of AUM.

We also distribute pension and other protection products through a digital insurance brokerage company, Ciclic Corretora de Seguros S.A (“Ciclic”). Our partner is BB Corretora De Seguros e Administradora De Bens S.A. (a subsidiary of Banco). We owned 25.005% of the economic and 50.01% of the voting shares of Ciclic as of December 31, 2019.

Chile. We offer a complete array of pension accumulation and income annuity products. We also offer mutual fund, asset management services and life insurance accumulation products. Our subsidiaries in Chile had \$46.2 billion of AUM as of December 31, 2019.

We offer mandatory employee-funded pension and voluntary savings plans through Administradora de Fondos de Pensiones Cuprum S.A. (“Cuprum”). We owned 97.97% of Cuprum as of December 31, 2019, and the rest is publicly floated. Cuprum’s products are sold through a proprietary sales network of approximately 1,000 sales employees as of December 31, 2019.

We offer income annuity and life insurance accumulation products through Principal Compañía de Seguros de Vida Chile S.A., our wholly owned life insurance company. The annuity products are distributed directly by our sales teams and through a network of brokers and independent agents. Life insurance accumulation products are offered to individuals through brokers and financial advisors.

We offer voluntary savings plans and mutual funds through Principal Administradora General de Fondos S.A., our wholly owned mutual fund company. Products are distributed to retail and institutional clients through our proprietary sales force, financial advisors, brokerage houses and alliances with financial institutions.

Mexico. We offer pension accumulation, mutual funds and asset management services through our wholly owned companies with \$15.1 billion of AUM as of December 31, 2019.

We offer mandatory pension plans through Principal Afore, S.A. de C.V., Principal Grupo Financiero. We manage and administer individual retirement accounts under the mandatory privatized social security system for all employees in Mexico. As of November 30, 2019, we had approximately 3.0 million individual retirement accounts. We distribute products and services through a proprietary sales force of approximately 1,400 sales representatives as of December 31, 2019, as well as independent brokers who sell directly to individuals.

We offer mutual funds and asset management services through Principal Fondos de Inversión, S.A. de C.V., Operadora de Fondos de Inversión, Principal Grupo Financiero. We distribute products and services through a sales force of approximately 55 employees as of December 31, 2019, and through distribution agreements with other financial entities. We offer both domestic and international products, typically sold directly to clients.

Asia

China. We offer mutual funds and asset management services to individuals and institutions through a joint venture, CCB Principal Asset Management Co., Ltd. (“CCB PAM”). We owned 25% and China Construction Bank (“CCB”) is the majority partner with 65% ownership as of December 31, 2019. CCB PAM distributes its mutual funds through CCB and third-party distributors such as banks, securities brokers and e-channels. CCB provides widespread distribution support for the joint venture via its extensive network of approximately 15,000 bank branches as of December 31, 2019, and brand awareness. Although not included in our reported AUM, the joint venture had \$145.7 billion of AUM as of December 31, 2019.

Hong Kong Special Administrative Region. We offer both pension saving and mutual fund products to corporate and retail clients through wholly owned companies with \$11.3 billion in AUM as of December 31, 2019.

We offer two types of pension saving schemes, Mandatory Provident Fund and Occupational Retirement Schemes Ordinance, which we distribute through third party intermediaries such as insurance companies, independent financial advisors, brokers and employee benefit consultants. Our most significant partnership is with AXA Hong Kong with whom we have a 15-year distribution partnership through 2030. We serviced approximately 611,000 accounts as of December 31, 2019. To help Hong Kong customers save for retirement beyond the mandatory pension schemes, Principal also offers mutual funds to retail customers through third party intermediaries, the most significant being banks.

India. We offer mutual funds and asset management services to both retail and corporate customers through Principal Asset Management Private Limited. In August 2018, upon receiving regulatory approval, Principal and Punjab National Bank completed a shares purchase agreement, giving Principal full ownership of the asset management business. Mutual funds are sold through independent distributors, including banks, and directly through proprietary sales offices. Digital platforms are also being developed to enhance customer experience. Our Principal Retirement Advisory Company focuses on long term and retirement investments. As of December 31, 2019, our subsidiary in India had \$0.9 billion of AUM.

Southeast Asia. We offer mutual funds, asset management services, and pension accumulation products through our joint ventures in Malaysia, Principal Asset Management Berhad (“PAM”) and Principal Islamic Asset Management (“PIAM”). The partner is CIMB Group (“CIMB”), a leading ASEAN universal bank which has a strong presence in the region. PAM also manages a significant amount of institutional asset mandates. The joint ventures had \$21.8 billion of AUM as of December 31, 2019.

PAM distributes conventional and Islamic mutual funds through the branches of its partner bank (approximately 800 bank branches throughout ASEAN and beyond) and through an agency sales force of over 6,000 agents selling to retail customers as of November 30, 2019. PAM also distributes its mutual funds through third party institutions including other banks and security houses.

PAM has wholly owned subsidiaries in Singapore (Principal Asset Management (S) Pte. Ltd.), Indonesia (PT Principal Asset Management) and Thailand (Principal Asset Management Company Limited). PIAM also has a Dubai International Financial Centre Representative Office, Principal Islamic Asset Management.

U.S. Insurance Solutions Segment

Our U.S. Insurance Solutions segment activities date back to 1879 when we first began selling individual life insurance products. We expanded our offering to include group insurance products in the 1940s and have continued to expand our product portfolio over time. We help businesses and individuals by offering solutions that grow and protect their assets:

- To small and medium sized businesses, we offer employer paid and voluntary group benefits, multi-life individual disability insurance and solutions to protect the business and personal insurance needs of owners and executives.
- To individuals, we offer individual life and individual disability insurance solutions.

We organize our operations into two divisions: Specialty Benefits insurance and Individual Life insurance. However, we share key resources in our core areas such as strategic leadership, distribution and marketing.

Specialty Benefits Insurance

Specialty Benefits insurance, which includes group dental, vision, life, critical illness, accident and disability insurance and individual disability insurance, is an important component of the employee benefit offering at small and medium-sized businesses.

Products and Services

Group Dental and Vision Insurance. Our plans provide partial reimbursement for dental and vision expenses. As of December 31, 2019, we had almost 72,000 group dental and vision insurance policies in force covering over 1.9 million employees. According to Life Insurance and Market Research Association (“LIMRA”), we were the 4th largest group dental insurer in terms of number of contracts/employer groups in force in 2018. In addition to indemnity and preferred provider organization dental offered on both an employer paid and voluntary basis, we offer a prepaid dental plan in Arizona through our Employers Dental Services, Inc. subsidiary. We also offer a discount dental product nationally. Our indemnity vision and our managed care vision products are offered on both an employer paid and voluntary basis.

Group Life Insurance. Our group life insurance provides coverage to employees and their dependents for a specified period. As of December 31, 2019, we had over 68,000 group policies providing nearly \$154.0 billion of group life insurance in force to approximately 2.5 million employee lives. According to LIMRA, in 2018 we were ranked 1st in the U.S. in terms of the number of group life insurance contracts in force. We currently sell traditional group life insurance that does not provide for accumulation of cash values on both an employer paid and voluntary basis. Our group life insurance business remains focused on the traditional, annually renewable term product. Group term life and group universal life accounted for 99% and 1%, respectively, of our total group life insurance in force as of December 31, 2019. We no longer market group universal life insurance to new employer groups.

Group Disability Insurance. Our group disability insurance provides a benefit to insured employees who become disabled. In most instances, this benefit is in the form of a monthly income. Our group disability products include both short-term and long-term disability, offered on both an employer paid and voluntary basis. As of December 31, 2019, long-term disability represented 59% of total group disability premium, while short-term disability represented 41% of total group disability premium. We also provide disability management services, called rehabilitation services, to assist individuals in returning to work as quickly as possible following disability. We work with disability claimants to improve the approval rate of Social Security benefits, thereby reducing payment of benefits by the amount of Social Security payments received. As of December 31, 2019, we served approximately 1.9 million employee lives through almost 50,000 contracts. According to LIMRA, our group short-term disability business was ranked 4th and our group long-term disability business was ranked 3rd in the U.S. as of December 31, 2018, in terms of number of contracts/employer groups in force. We also offer voluntary critical illness insurance, which provides a lump-sum cash benefit to pay for additional expenses associated with the five most common critical illnesses, and voluntary accident insurance, which pays a lump sum when covered injuries occur because of an accident.

Individual Disability Insurance. Individual disability insurance has been sold since the early 1950s. Our individual disability insurance products provide income protection to the insured member and/or business in the event of disability. In most instances, this benefit is in the form of a monthly income. In addition to income replacement, we offer products to pay business-related costs such as overhead expenses for a disabled business owner, buy-out costs for business owners purchasing a disabled owner's interest in the business, expenditures for replacement of a key person and business loan payments. We also offer a product to protect retirement savings in the event of disability. As of December 31, 2019, we served approximately 203,000 individual disability policyholders. According to LIMRA, our individual disability business was ranked 5th in the U.S. in terms of premium in force in the non-cancellable segment of the market and 5th overall, as of December 31, 2018.

Fee-for-Service. We offer administration of group dental, disability and vision benefits on a fee-for-service basis.

Individual Life Insurance

We specialize in providing solutions for small to medium-sized businesses to protect against risk and loss, assist with succession planning and wealth transfer and to build and protect wealth for retirement. We also provide solutions to meet the personal needs of business owners, executives, key employees and affluent individuals. Our U.S. operations administered approximately 668,000 individual life insurance policies with over \$421.0 billion of individual life insurance in force as of December 31, 2019.

Products and Services

Our Business Owner and Executive Solutions platform as well as our nonqualified deferred compensation offering combines administration and consulting to service our clients' needs. We target the business and personal insurance needs of owners, executives and key employees of small and medium-sized businesses with an increasing focus on providing insurance solutions for nonqualified executive benefits. In addition, we market our products to meet traditional retail insurance needs. We offer a variety of individual life insurance products, both interest sensitive (including universal life, variable universal life and indexed universal life insurance) and traditional.

Interest Sensitive. We offer universal life, variable universal life and indexed universal life insurance products. These products offer the policyholder the option of adjusting both the premium and the death benefit amounts of the insurance contract. Universal life insurance typically includes a cash value account that accumulates at a credited interest rate based on the investment returns of the block of business. Variable universal life insurance is credited with the investment returns of the various investment options selected by the policyholder. Indexed universal life is credited with investment returns tied to an external index, subject to a contractual minimum and maximum. For the year ended December 31, 2019, interest sensitive products represented 22% of individual life insurance in force and generated 67% of individual life insurance annualized first year premium sales.

After a deduction for policy level expenses, we credit net deposits to an account maintained for the policyholder. For universal life contracts, the entire account balance is invested in the general account. Interest is credited to the policyholder's account based on the earnings on general account investments, subject to contractual minimums. For variable universal life contracts, the policyholder may allocate the account balance among our general account and a variety of mutual funds underlying the contract. Interest is credited on amounts allocated to the general account in the same manner as for universal life. Net investment performance on mutual funds is allocated directly to the policyholder accounts; the policyholder bears the investment risk. For indexed universal life, the policyholder may allocate the account balance among our general account and two index accounts. Interest is credited on amounts allocated to the general account in the same manner as for universal life. Net investment performance on the index accounts is allocated directly to the policyholder accounts, subject to the contractual minimum and maximum. Some of our interest sensitive contracts contain what are commonly referred to as "secondary" or "no-lapse" guarantee provisions. These no-lapse guarantees keep the contract in force, even if the policyholder's account balance is insufficient to cover all of the contract charges, provided that the policyholder has continually paid a specified minimum premium.

Traditional Life Insurance. Traditional life insurance includes term, whole and adjustable life insurance products. Term insurance products provide a guaranteed death benefit for a specified period of time in return for the payment of a fixed premium. Term life insurance products represented 33% of our individual life insurance annualized first year premium sales for the year ended December 31, 2019, and 75% of individual life insurance in force as of December 31, 2019. Whole life policies provide a guaranteed death benefit and a cash surrender value in return for payment of fixed premiums. Adjustable life insurance products provide a guaranteed benefit in return for the payment of a fixed premium while allowing the policyholder to set the coverage period, premium and face amount combination. Policyholder dividends are not paid on term insurance.

U.S. Insurance Solutions Markets and Distribution

For each of our products, administration and distribution channels are customized to meet customer needs and expectations for that product.

We market our group insurance products to small and medium-sized businesses, primarily targeting our sales toward owners and human resources professionals. We sell our group insurance products in all 50 states and the District of Columbia. We continually adapt our products and pricing to meet local market conditions. We market our fee-for-service capabilities to employers that self-insure their employees' dental, disability and vision benefits. We market our fee-for-service businesses in all 50 states and the District of Columbia.

The group insurance market continues to see a shift to voluntary/worksites products due to various pressures on employers. In keeping with this market change, which shifts the funding of such products from the employer to the employee, we continue to place an enhanced focus on our voluntary benefits platform. We believe the voluntary/worksites market presents growth opportunities and we will continue to develop strategies to capitalize on this expanding market.

As of December 31, 2019, we had 134 sales representatives and 154 service representatives in 26 local markets. Our sales representatives accounted for 99% of our group insurance sales for the year ended December 31, 2019. The service representatives play a key role in servicing the case by providing local, responsive services to our customers and their brokers, such as renewing contracts, revising plans, solving administrative issues and communicating the customers' needs and feedback to us.

We sell our individual life and individual disability insurance products in all 50 states and the District of Columbia, primarily targeting owners, executives and key employees of small and medium-sized businesses. Small and medium-sized business sales represented 61% of individual life sales and 61% of individual disability sales for the year ended December 31, 2019. Much of our life insurance sales efforts focus on the Business Owner and Executive Solutions market. This strategy offers solutions to address business owner financial challenges such as exiting the business, business transition, retaining key employees and retirement planning. Key employees also have needs to supplement retirement income, survivor income, and business protection. We believe the Business Owner and Executive Solutions segment offers growth opportunities and we will continue to develop strategies to capitalize on this expanding market.

We distribute our individual life and individual disability insurance products through our affiliated financial representatives and independent brokers, as well as other marketing and distribution alliances. Affiliated financial representatives were responsible for 13% of individual life insurance sales based on first year annualized premium and 9% of individual disability sales for the year ended December 31, 2019. We had 1,173 affiliated financial representatives in 26 offices as of December 31, 2019. Although they are independent contractors, we have a close tie with affiliated financial representatives and we offer them benefits, training and access to tools and expertise. To meet the needs of the various marketing channels, particularly the independent brokers, we employ wholesale distributors — Regional Vice Presidents for individual life and Regional Vice Presidents for individual disability. A key differentiator in the nonqualified executive benefit sale is our Regional Vice Presidents-Nonqualified Plans, who are not only wholesalers but also consultants and subject-matter experts providing point-of-sale support in closing cases.

Corporate Segment

Our Corporate segment manages the assets representing capital that has not been allocated to any other segment. Financial results of the Corporate segment primarily reflect our financing activities (including financing costs), income on capital not allocated to other segments, inter-segment eliminations, income tax risks and certain income, expenses and other adjustments not allocated to the segments based on the nature of such items. Results of Principal Securities, Inc., our retail broker-dealer and registered investment advisor; RobustWealth, Inc. ("RobustWealth"), our financial technology company; and our exited group medical and long-term care insurance businesses are reported in this segment.

Competition

Competition in our segments is based on a number of factors including: scale, service, product features, price, investment performance, commission structure, distribution capacity, financial strength ratings and name recognition. We compete with a large number of financial services companies such as banks, mutual funds, institutional trust companies, broker-dealers, insurers and asset managers. Some of these companies offer a broader array of products, more competitive pricing, greater diversity of distribution sources, better brand recognition or, with respect to insurers, higher financial strength ratings. Some may also have greater financial resources with which to compete or may have better investment performance at various times. We believe we distinguish ourselves from our competitors through our:

- full service platform;
- strong customer relationships;
- focus on investment performance and
- expansive product portfolio.

Ratings

Insurance companies are assigned financial strength ratings by rating agencies based upon factors relevant to policyholders. Financial strength ratings are generally defined as opinions as to an insurer's financial strength and ability to meet ongoing obligations to policyholders. Information about ratings provides both industry participants and insurance consumers meaningful insights on specific insurance companies. Higher ratings generally indicate financial stability and a stronger ability to pay claims.

Principal Life and Principal National Life Insurance Company ("PNLIC") have been assigned the following insurer financial strength ratings:

Rating Agency	Financial Strength Rating	Rating Structure
A.M. Best Company, Inc.	A+ ("Superior") with a stable outlook	Second highest of 13 rating levels
Fitch Ratings Ltd.	AA- ("Very Strong") with a stable outlook	Fourth highest of 19 rating levels
Moody's Investors Service	A1 ("Good") with a stable outlook	Fifth highest of 21 rating levels
S&P Global Ratings	A+ ("Strong") with a stable outlook	Fifth highest of 20 rating levels

A.M. Best Company, Inc. ("A.M. Best") ratings for insurance companies range from "A++" to "S". A.M. Best indicates that "A++" and "A+" ratings are assigned to those companies that in A.M. Best's opinion have superior ability to meet ongoing insurance obligations. Fitch Ratings Ltd. ("Fitch") ratings for insurance companies range from "AAA" to "C". Fitch "AA" ratings indicate very strong capacity to meet policyholder and contract obligations. Moody's Investors Service ("Moody's") ratings for insurance companies range from "Aaa" to "C". Moody's indicates that "A" ratings are assigned to those companies that offer good financial security. S&P Global Ratings ("S&P") has ratings that range from "AAA" to "D" for insurance companies. S&P indicates that "A" ratings are assigned to those companies that have strong financial security characteristics. In evaluating a company's financial and operating performance, these rating agencies review its profitability, leverage and liquidity, as well as its book of business, the adequacy and soundness of its reinsurance, the quality and estimated market value of its assets, the adequacy of its policy reserves, the soundness of its risk management programs, the experience and competency of its management and other factors.

In the fourth quarter of 2019, Fitch revised its 2020 U.S. life insurance sector outlook to 'negative' from 'stable', which reflects increased concerns over the low interest rate environment. A.M. Best, S&P and Moody's continue to maintain a 'stable' industry outlook.

We believe our strong ratings are an important factor in marketing our products to our distributors and customers, as ratings information is broadly disseminated and generally used throughout the industry. Our ratings reflect each rating agency's opinion of our financial strength, operating performance and ability to meet our obligations to policyholders and are not evaluations directed toward the protection of investors. Such ratings are neither a rating of securities nor a recommendation to buy, hold or sell any security, including our common stock. For more information on ratings, see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations – Liquidity and Capital Resources – Financial Strength and Credit Ratings."

Regulation

Our businesses are subject to regulation and supervision by U.S. federal and state regulatory authorities as well as non-U.S. regulatory authorities for our operations and customers outside the U.S., which can have a significant effect on our business. Our businesses are also affected by U.S. federal, state and local tax laws as well as tax laws for jurisdictions outside the U.S.

PFG, our parent holding company, is not licensed as an insurer, investment advisor, broker-dealer, bank or other regulated entity. However, because it is the holding company for all of our operations, it is subject to regulation in connection with our regulated entities, including as an insurance holding company. We are subject to legal and regulatory requirements applicable to public companies, including public reporting and disclosure, securities trading, accounting and financial reporting and corporate governance.

U.S. Insurance Regulation

We are subject to the insurance holding company laws in the states where our insurance companies are domiciled. Principal Life and PNLIC are domiciled in Iowa and their principal insurance regulatory authority is the Insurance Division of the Department of Commerce of the State of Iowa. Our other U.S. insurance companies are principally regulated by the insurance departments of the states in which they are domiciled. These laws generally require each insurance company directly or indirectly owned by the holding company to register with the insurance department in the insurance company's state of domicile and to furnish financial and other information about the operations of the companies within the holding company system. Transactions affecting the insurers in the holding company system must be fair and at arm's length. Most states have insurance laws that require regulatory approval of a direct or indirect change in control of an insurer or an insurer's holding company and laws that require prior notification to state insurance departments of a change in control of a non-domiciliary insurance company doing business in that state.

Annually, our U.S. insurance companies must submit an opinion from a board-appointed qualified actuary to state insurance regulators, where licensed, on whether the statutory assets held backing statutory reserves are sufficient to meet contractual obligations and related expenses of the insurer. If such an opinion cannot be rendered noting the sufficiency of assets, the insurance company must set up additional statutory reserves drawing from available statutory surplus until such an opinion can be given.

State insurance departments have broad administrative powers over the insurance business, including insurance company licensing and examination, agent licensing, establishment of reserve requirements and solvency standards, premium rate regulation, admittance of assets to statutory surplus, policy form approval, unfair trade and claims practices regulation and other matters. State insurance statutes also typically place restrictions and limitations on the amount of dividends or other distributions payable by insurance company subsidiaries to their parent companies. See Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Liquidity and Capital Resources" for further details.

In order to enhance the regulation of insurer solvency, the National Association of Insurance Commissioners ("NAIC") has established risk-based capital ("RBC") standards. The standards require life insurers to submit a report to state regulators on an annual basis regarding their RBC based upon categories of risk including the following: asset risk, insurance risk, interest rate risk and business and operational risk. As of December 31, 2019, the statutory surplus of each of our U.S. life insurance companies exceeded the minimum RBC requirements.

State and federal insurance and securities regulatory authorities and other state law enforcement agencies and attorneys general regularly make inquiries and conduct examinations or investigations regarding our compliance with, among other things, insurance laws and securities laws.

Each state has insurance guaranty association laws under which insurers doing business in a state can be assessed, up to prescribed limits, in order to cover contractual benefit obligations of insolvent insurance companies. The guaranty associations levy assessments on each member insurer in a jurisdiction on the basis of the proportionate share of the premiums written by such insurer in the lines of business in which the insolvent insurer is engaged. Some jurisdictions permit the member insurers to recover the assessments paid through full or partial premium tax offsets.

Securities Regulation

Insurance and investment products such as variable annuities, variable life insurance and some funding agreements that constitute securities and mutual fund products are subject to securities laws and regulations, including U.S. state securities regulation as well as U.S. federal regulation under the SEC, FINRA and other regulatory authorities. These regulations affect investment advice, sales and related activities for these products.

We also have entities that are registered as investment advisers with the SEC under, and are therefore subject to, the Investment Advisers Act of 1940.

Employee Retirement Income Security Act

As we provide products and services for U.S. employee benefit plans, we are subject to regulation under the Employee Retirement Income Security Act (“ERISA”). ERISA provisions include reporting and disclosure requirements and standards of conduct.

Banking Regulation

Principal Bank, a wholly owned subsidiary, is a U.S. federal savings bank regulated by the Office of the Comptroller of the Currency. Principal Bank’s depositors are insured by the FDIC up to specified limits, making Principal Bank subject to certain of the FDIC’s regulations.

Trust Regulation

Delaware Charter Guarantee & Trust Company conducting business as Principal Trust Company, a wholly owned subsidiary, is a Delaware state chartered trust company regulated by the State of Delaware Office of the State Bank Commissioner. Principal Trust Company is subject to Delaware banking and trust law.

Principal Global Investors Trust Company, a wholly owned subsidiary, is an Oregon state registered banking corporation with trust powers regulated by the State of Oregon Division of Financial Regulations. Principal Global Investors Trust Company is subject to Oregon banking regulations.

Environmental Regulation

As we own and operate real property, we are subject to U.S. federal, state and local environmental laws, as well as international environmental laws and could be subject to environmental liabilities and costs associated with required remediation of our properties. We routinely have environmental assessments performed for real estate being acquired or used as collateral for commercial mortgages we use for investment.

Regulation of International Businesses

Our international businesses are supervised by regulatory authorities in the jurisdictions in which they operate, including regulation and supervision by insurance, securities, tax and privacy regulatory authorities. The purpose of these regulations is similar to the U.S., to protect our customers and the overall financial system. Regulations such as the revised Markets in Financial Instruments Directive and the General Data Protection Regulation (“GDPR”) have a global impact on our businesses.

Risk Management

Like all financial services companies, we are exposed to a wide variety of financial, operational and other risks, as described in Item 1A. “Risk Factors.” Effective enterprise risk management is, therefore, a key component of our business model.

Enterprise risk management helps us to manage risk to meet our customer obligations, satisfy regulatory requirements, adequately provide for contingencies in case of stress, optimize shareholder returns, support our core values and maintain our reputation.

We utilize an integrated risk management framework to help us identify, assess, monitor, report, manage and aggregate our material risks within established risk appetites and risk tolerances. The framework delivers important perspective that is used in strategic and tactical decision making and is adaptable to changes in our businesses and in the external environments in which we operate. Our approach also requires a commitment to continuous improvement and periodic validation.

Our governance structure includes Board of Directors oversight, internal risk committees, a corporate risk management function and embedded risk professionals in our business units and functional areas. Our Board of Directors, Audit Committee, Finance Committee, Human Resource Committee and Nominating and Governance Committee provide oversight no less frequently than quarterly, addressing relevant aspects of our risk profile.

Our internal risk committees meet on a regular and frequent basis to discuss various issues and review profile status. Each business unit has its own committee that is responsible for oversight of the material risks within the unit or area. These committees may include corporate leaders. We also have internal committees that provide oversight around a certain risk or group of related risks across the organization. This matrix approach helps us maintain comprehensive risk coverage and preserve an integrated view of risks. The Enterprise Risk Management Committee, comprised of members from the executive management team, exercises enterprise-wide oversight for our most significant risk profiles.

The business units and functional areas are responsible for identifying, assessing, monitoring, reporting and managing their own risks. Chief Risk Officers embedded within each business unit or risk professionals in functional areas help align risk management practice with the strategies of the unit as well as with enterprise-wide objectives.

The Corporate Chief Risk Officer and supporting staff are separate from the business units and provide objective oversight, framework enablement and aggregated risk analysis. Internal Audit provides independent assurance around effective risk management design and control execution.

Risk appetites, tolerances and limits have been established from an enterprise-wide and business unit perspective for specific risk categories, where appropriate. We monitor a variety of risk metrics on an ongoing basis and take the appropriate steps to manage our established risk appetites and tolerances. Quarterly risk reporting provides a feedback loop between business units, functional areas, our internal risk committees and the corporate risk management function. This reporting also includes perspectives on emerging risk. To the extent potentially significant business activities or operational initiatives are considered, analysis of the possible impact on our risk profile takes place. This analysis includes, but is not limited to, the capital implications; the impact on near term and long-term earnings; the ability to meet our targets with respect to return on equity, liquidity, debt/capital, cash coverage, business risk and operational risk; and the impact to our reputation.

Employees

As of December 31, 2019, we had 17,601 employees. None of our employees are subject to collective bargaining agreements except a group of employees within our Cuprum organization in Chile. We believe that our employee relations are satisfactory.

Internet Website

Our internet website can be found at www.principal.com. We make available free of charge, on or through our internet website, access to our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 as soon as reasonably practicable after such material is filed with or furnished to the SEC. These reports are also available on the SEC's website at www.sec.gov. Also available free of charge on our internet website is our code of business conduct and ethics, corporate governance guidelines and charters for the Audit, Finance, Human Resources and Nominating and Governance committees of our Board of Directors. Also see Item 10. "Directors, Executive Officers and Corporate Governance."

Item 1A. Risk Factors

This section provides an overview of the risks that may impact our performance in the future.

Risks relating to economic conditions, market conditions and investments

Adverse capital and credit market conditions may significantly affect our ability to meet liquidity needs, as well as our access to capital and cost of capital.

Our results of operations, financial condition, cash flows and capital position could be materially adversely affected by volatility, uncertainty and disruption in the capital and credit markets.

We maintain a level of cash and securities which, combined with expected cash inflows from investments and operations, is believed adequate to meet anticipated short-term and long-term benefit and expense payment obligations. However, withdrawal and surrender levels may differ from anticipated levels for a variety of reasons, such as changes in economic conditions or changes in our claims paying ability and financial strength ratings. For additional information regarding our exposure to interest rate risk and the impact of a downgrade in our financial strength ratings, see "—Changes in interest rates or credit spreads or a sustained low interest rate environment may adversely affect our results of operations, financial condition and liquidity, and our net income can vary from period to period" and "—A downgrade in our financial strength or credit ratings may increase policy surrenders and withdrawals, reduce new sales, terminate relationships with distributors, impact existing liabilities and increase our cost of capital, any of which could adversely affect our profitability and financial condition." In addition, mark-to-market adjustments on our derivative instruments may lead to fluctuations in our reported capital. Volatility, uncertainty or disruptions in the capital or credit markets may result in the need for additional capital to maintain a targeted level of U.S. statutory capital relative to the NAIC's RBC requirements. In the event our current internal sources of liquidity do not satisfy our needs, we may have to seek additional financing and, in such case, we may not be able to successfully obtain additional financing on favorable terms, or at all. The availability of additional financing will depend on a variety of factors such as market conditions, the general availability of credit, the volume of trading activities, the overall availability of credit to the financial services industry, our credit ratings and credit capacity, as well as customers' or lenders' perception of our long- or short-term financial prospects. Similarly, our access to funds may be impaired if regulatory authorities or rating agencies take negative actions against us.

Disruptions, uncertainty or volatility in the capital and credit markets may limit our access to capital required to operate our business, most significantly our insurance operations. Such market conditions may limit our ability to replace, in a timely manner, maturing liabilities; satisfy statutory capital requirements; fund redemption requests on insurance or other financial products; generate fee income and market-related revenue to meet liquidity needs and access the capital necessary to grow our business. As such, we may be forced to delay raising capital, issue shorter tenor securities than we prefer, utilize available internal resources or bear an unattractive cost of capital, which could decrease our profitability and significantly reduce our financial flexibility and liquidity.

In addition, we maintain credit facilities with various financial institutions as a potential source of excess liquidity. These facilities are in place to bridge timing in cash flows to minimize the cost of meeting our obligations, particularly during periods when alternative sources of liquidity are limited. Our ability to borrow funds under these facilities is conditioned on our satisfaction of covenants and other requirements contained in the facilities. Our failure to comply with these covenants, or the failure of lenders to fund their lending commitments, would restrict our ability to access these credit facilities and, consequently, could limit our flexibility in meeting our cash flow needs.

For further discussion on liquidity risk management, see Item 7. “Management's Discussion and Analysis of Financial Condition and Results of Operations — Liquidity and Capital Resources.”

Conditions in the global capital markets and the economy generally may materially and adversely affect our business and results of operations.

Our results of operations are materially affected by conditions in the global capital markets and the economy generally, both in the U.S. and elsewhere around the world. Adverse economic conditions may result in a decline in our AUM and revenues and erosion of our profit margins. In addition, in the event of extreme prolonged market events and economic downturns, we could incur significant losses. Even in the absence of a market downturn, we are exposed to substantial risk of loss due to market volatility.

Factors such as consumer spending, business investment, government spending, the volatility and strength of the capital markets, investor and consumer confidence, foreign currency exchange rates and inflation levels all affect the business and economic environment and, ultimately, the amount and profitability of our business. In an economic downturn characterized by higher unemployment, lower family income, lower corporate earnings, lower business investment, negative investor sentiment and lower consumer spending, the demand for our financial and insurance products could be adversely affected. In addition, we may experience an elevated incidence of claims and lapses or surrenders of policies. Our policyholders may choose to defer paying insurance premiums or stop paying insurance premiums altogether. In addition, reductions in employment levels of our existing employer customers may result in a reduction in membership levels and premium income for our specialty benefits products. Participants within the retirement plans for which we provide administrative services may elect to reduce or stop their payroll deferrals to these plans, which would reduce AUM and revenues. In addition, reductions in employment levels may result in a decline in employee deposits into retirement plans. Adverse changes in the economy could affect net income negatively and could have a material adverse effect on our business, results of operations and financial condition.

An economic downturn may also lead to weakening of foreign currencies against the U.S. dollar, which would adversely affect the translation of segment pre-tax operating earnings and equity of our international operations into our consolidated financial statements. For further discussion on foreign currency exchange risk, see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk — Foreign Currency Risk.”

Volatility or declines in the equity, bond or real estate markets could reduce our AUM and may result in investors withdrawing from the markets or decreasing their rates of investment, all of which could reduce our revenues and net income.

Because the revenues of our asset management and accumulation businesses are, to a large extent, based on the value of AUM, a decline in domestic and global equity, bond or real estate markets will decrease our revenues. Turmoil in these markets could lead investors to withdraw from these markets, decrease their rates of investment or refrain from making new investments, which may reduce our AUM, revenues and net income.

For further discussion on equity risk management, see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk — Equity Risk.”

Changes in interest rates or credit spreads or a sustained low interest rate environment may adversely affect our results of operations, financial condition and liquidity, and our net income can vary from period to period.

Interest rates remain low relative to historical levels. During periods of declining interest rates or sustained low interest rates, the interest rates we earn on our assets may be lower than the rates assumed in pricing our products, thereby reducing our profitability. For some of our products, such as GICs and funding agreements, we are unable to lower the rate we credit to customers in response to the lower return we will earn on our investments. In addition, guaranteed minimum interest rates on our life insurance and annuity products may constrain our ability to lower the rate we credit to customers. Declining interest rates may also lead to a reduction in revenues related to our trust and custody business. If interest rates remain low over a sustained period of time, this may result in increases in our reserves and true-ups or unlocking of our deferred acquisition cost (“DAC”) asset and other actuarial balances. During periods of declining interest rates, borrowers may prepay or redeem mortgages and bonds that we own, which would force us to reinvest the proceeds at lower interest rates. Furthermore, declining interest rates may reduce the rate of policyholder surrenders and withdrawals on our life insurance and annuity products, thus increasing the duration of the liabilities and creating asset and liability duration mismatches. Low interest rates may also increase the cost of hedging our GMWB rider. Declining interest rates or a sustained low interest rate environment may also result in changes to the discount rate used for valuing our pension and other postretirement employee benefit (“OPEB”) obligations, which could negatively impact our results of operations and financial condition. In addition, certain statutory capital and reserve requirements are based on formulas or models that consider interest rates and a prolonged period of low interest rates may increase the statutory capital we are required to hold as well as the amount of assets we must maintain to support statutory reserves.

Increases in market interest rates may also adversely affect our results of operations, financial condition and liquidity. During periods of increasing market interest rates, we may offer higher crediting rates on our insurance and annuity products in order to keep these products competitive. Because returns on our portfolio of invested assets may not increase as quickly as current interest rates, we may have to accept lower spreads, thus reducing our profitability. Rapidly rising interest rates may also result in an increase in policy surrenders, withdrawals and requests for policy loans as customers seek to achieve higher returns. In addition, rising interest rates would cause a decrease in the value of financial assets held at fair value on our consolidated statements of financial position. We may be required to sell assets to raise the cash necessary to respond to an increase in surrenders, withdrawals and loans, thereby realizing capital losses on the assets sold. An increase in policy surrenders and withdrawals may also require us to accelerate amortization of our DAC asset relating to these products, which would further reduce our profitability. Rising interest rates may also cause a decline in the value of the fixed income assets we manage, resulting in a reduction in our fee revenue in the short term. In addition, a significant increase in interest rates may cause a reduction in the fair value of intangible assets in our reporting units, potentially leading to an impairment of goodwill or other intangible assets.

For further discussion about interest rate risk management, see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk – Interest Rate Risk.”

Our exposure to credit spreads primarily relates to market price variability and reinvestment risk associated with changes in credit spreads. A widening of credit spreads would cause unrealized losses in our investment portfolio, would increase losses associated with credit-based derivatives we have sold that do not qualify or have not been designated for hedge accounting where we assume credit exposure and, if issuer credit spreads increase as a result of fundamental credit deterioration, would likely result in higher allowances. Credit spread tightening will reduce net investment income associated with new purchases of fixed maturities. Credit spread tightening may also cause an increase in the reported value of certain liabilities that are valued using a discount rate that reflects our own credit spread. In addition, market volatility may make it difficult to value certain of our securities if trading becomes less frequent. As such, valuations may include assumptions or estimates that may have significant period-to-period changes from market volatility, which could have a material adverse effect on our results of operations or financial condition.

The elimination of the London Inter-Bank Offered Rate (“LIBOR”) may affect the value of certain derivatives and floating rate securities we hold or have issued and the profitability of certain real estate lending activity or businesses.

In July 2017, the United Kingdom’s Financial Conduct Authority, which regulates LIBOR, announced that it would not persuade or compel LIBOR panel banks to submit LIBOR rates after 2021. As a consequence, LIBOR and other inter-bank offered rates around the world are expected to undergo a transition to other reference rates by the end of 2021. The transition to other reference rates may affect the value of certain derivatives and floating rate securities we hold, floating rate securities we have issued and the profitability of certain real estate lending activity. Additionally, pricing activities, models and the profitability of certain businesses may also be impacted.

The effect of any changes to LIBOR or discontinuation of LIBOR on new or existing financial instruments, liabilities or operational processes will vary depending on a number of factors, many of which are currently uncertain. Examples of potential factors include, but are not limited to: fallback provisions in contracts; adoption of replacement language in contracts where such language is currently absent; potential changes in spreads causing valuation changes; treatment of hedge effectiveness; and impacts on models and systems. Consequently, at this time it is difficult to estimate the impact of a transition away from LIBOR.

The U.S. Federal Reserve, based on the recommendations of the New York Federal Reserve's Alternative Reference Rate Committee (comprised of major derivative market participants and their regulators), began publishing in April 2018 a Secured Overnight Financing Rate ("SOFR"), which is intended to replace U.S. dollar LIBOR. SOFR is a broad measure of the cost of borrowing cash overnight collateralized by U.S. Treasury securities. Proposals for alternative reference rates for other currencies have also been announced or have already begun publication. Markets are developing in response to these new rates. Similarly, we have undertaken an enterprise-wide effort to address the transition to minimize the potential for adverse impacts.

Our investment portfolio is subject to several risks that may diminish the value of our invested assets and the investment returns credited to customers, which could reduce our sales, revenues, AUM and net income.

An increase in defaults or write-downs on our fixed maturities portfolio may reduce our profitability.

We are subject to the risk that the issuers of the fixed maturities we own will default on principal and interest payments. As of December 31, 2019, our U.S. investment operations held \$67.0 billion of fixed maturities, or 75% of total U.S. invested assets, of which approximately 4% were below investment grade and \$58.2 million, or 0.09% of our total fixed maturities that were classified as either "problem," "potential problem" or "restructured." See Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Investments — U.S. Investment Operations — Fixed Maturities."

As of December 31, 2019, the international investment operations of our fully consolidated subsidiaries held \$3.8 billion of fixed maturities, or 50%, of total international invested assets, of which 7% are government bonds. Some non-government bonds have been rated on the basis of the issuer's country credit rating. However, the ratings relationship between national ratings and global ratings is not linear with the U.S. The starting point for national ratings differs by country, which makes the assessment of credit quality more difficult. See Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Investments — International Investment Operations." An increase in defaults on our fixed maturities portfolio could harm our financial strength and reduce our profitability.

An increased rate of delinquency and defaults on our commercial mortgage loans, including balloon maturities with and without amortizing payments, may adversely affect our profitability.

Our commercial mortgage loan portfolio faces both delinquency and default risk. Commercial mortgage loans of \$15.0 billion represented 16% of our total invested assets as of December 31, 2019. As of December 31, 2019, there were no loans in the process of foreclosure in our commercial mortgage loan portfolio. The performance of our commercial mortgage loan investments, however, may fluctuate in the future. An increase in the delinquency rate of, and defaults under, our commercial mortgage loan portfolio could harm our financial strength and decrease our profitability.

As of December 31, 2019, approximately \$12.3 billion, or 84%, of our U.S. investment operations commercial mortgage loans before valuation allowance had balloon payment maturities. A balloon maturity is a loan with all or a meaningful portion of the loan amount due at the maturity of the loan. The default rate on commercial mortgage loans with balloon payment maturities has historically been higher than for commercial mortgage loans with a fully amortizing loan structure. Since a significant portion of the principal is repaid at maturity, the amount of loss on a default is generally greater than fully amortizing commercial mortgage loans. An increase in defaults on balloon maturity loans as a result of the foregoing factors could harm our financial strength and decrease our profitability.

Mark-to-market adjustments on equity securities, trading securities and certain equity method investments may reduce our profitability or cause volatility in our net income.

Our investment portfolio includes equity securities, trading securities and certain equity method investments that are reported at fair value on the consolidated statements of financial position with changes in fair value reported in net income. Mark-to-market adjustments on these investments may reduce our profitability or cause our net income to vary from period to period. We anticipate that acquisition and investment activities may increase the number and magnitude of these investments in the future.

We may have difficulty selling our privately placed fixed maturities, mortgage loans and real estate investments because they are less liquid than our publicly traded fixed maturities.

We hold certain investments that may be less liquid than our publicly traded fixed maturities, such as privately placed fixed maturities, mortgage loans and real estate investments. These asset classes represented approximately 44% of the value of our invested assets as of December 31, 2019.

If we require significant amounts of cash on short notice, we may have difficulty selling these investments in a timely manner, be forced to sell them for less than we otherwise would have been able to realize or both. The reported value of our relatively illiquid types of investments, our investments in the asset classes described above and, at times, our high quality, generally liquid asset classes, do not necessarily reflect the lowest possible price for the asset. If we were forced to sell certain of our assets in the current market, there can be no assurance we will be able to sell them for the prices at which we have recorded them and we may be forced to sell them at significantly lower prices.

The impairment of derivative counterparties could adversely affect us.

We use derivative instruments to hedge various risks we face in our businesses. See Item 7A. “Quantitative and Qualitative Disclosures About Market Risk.” We enter into a variety of derivative instruments with a number of counterparties in the financial services industry, including brokers and dealers, commercial banks, investment banks, clearinghouses, exchanges and other institutions. For transactions where we are in-the-money, we are exposed to credit risk in the event of default of our counterparty. We establish collateral agreements with nominal thresholds for a large majority of our counterparties to limit our exposure. However, our credit risk may be exacerbated when the collateral held by us cannot be realized or is liquidated at prices not sufficient to recover the full amount of the loan or derivative exposure. With regard to our derivative exposure, we have over-collateralization requirements on the portion of collateral we hold, based on the risk profile of the assets posted as collateral. We also have exposure to these financial institutions in the form of unsecured debt instruments and equity investments. Such losses or impairments to the carrying value of these assets may materially and adversely affect our business and results of operations.

Our requirements to post collateral or make payments related to declines in market value of specified assets may adversely affect our liquidity and expose us to counterparty credit risk.

Many of our derivative transactions with financial and other institutions specify the circumstances under which the parties are required to post collateral. We are also required to post collateral in connection with funding agreements with the FHLB Des Moines, a reinsurance agreement, and various other transactions. The amount of collateral we may be required to post under these agreements may increase under certain circumstances, which could adversely affect our liquidity. In addition, under the terms of some of our transactions we may be required to make payment to our counterparties related to any decline in the market value of the specified assets. Such payments could have an adverse effect on our liquidity. Furthermore, with respect to any such payments, we will have unsecured risk to the counterparty as these amounts are not required to be segregated from the counterparty’s other funds, are not held in a third party custodial account, and are not required to be paid to us by the counterparty until the termination of the transaction.

Environmental liability exposure may result from our commercial mortgage loan portfolio and real estate investments.

Liability under environmental protection laws resulting from our commercial mortgage loan portfolio and real estate investments may harm our financial strength and reduce our profitability. Under the laws of several states and other jurisdictions, contamination of a property may give rise to a lien on the property to secure recovery of the costs of cleanup. In some states, this kind of lien has priority over the lien of an existing mortgage against the property, which would impair our ability to foreclose on that property should the related loan be in default. In addition, under the laws of some states and under the U.S. Comprehensive Environmental Response, Compensation and Liability Act of 1980, we may be liable for costs of addressing releases or threatened releases of hazardous substances that require remedy at a property securing a mortgage loan held by us, if our agents or employees have become sufficiently involved in the hazardous waste aspects of the operations of the related obligor on that loan, regardless of whether or not the environmental damage or threat was caused by the obligor. We also may face this liability after foreclosing on a property securing a mortgage loan held by us. This may harm our financial strength and decrease our profitability.

Regional concentration of our commercial mortgage loan portfolio in California may subject us to losses attributable to economic downturns or catastrophes in that state.

Commercial mortgage lending in the state of California accounted for 21%, or \$3.1 billion, of our U.S. investment operations commercial mortgage loan portfolio before valuation allowance as of December 31, 2019. Due to this concentration of commercial mortgage loans in California, we are exposed to potential losses resulting from the risk of an economic downturn in California as well as to catastrophes, including but not limited to earthquakes, that may affect the region. While we generally do not require earthquake insurance for properties on which we make commercial mortgage loans, we do take into account property specific engineering reports, construction type and geographical concentration by fault lines in our investment underwriting guidelines. If economic conditions in California deteriorate or catastrophes occur, we may in the future experience delinquencies or defaults on the portion of our commercial mortgage loan portfolio located in California, which may harm our financial strength and reduce our profitability.

Gross unrealized losses may be realized or result in future credit losses, resulting in a reduction in our net income.

Fixed maturities that are classified as available-for-sale (“AFS”) are reported on the consolidated statements of financial position at fair value. Unrealized gains or losses on AFS securities, excluding those in fair value hedging relationships, are recognized as a component of accumulated other comprehensive income (“AOCI”) and are, therefore, excluded from net income. Our U.S. investment operations had gross unrealized losses on fixed maturities of \$104.2 million pre-tax as of December 31, 2019, and the component of gross unrealized losses for securities trading down 20% or more for over six months was \$8.0 million pre-tax. The accumulated change in fair value of the AFS securities is recognized in net income when the gain or loss is realized upon the sale of the asset or in the event that the decline in fair value requires an allowance for credit loss. Realized losses or credit losses may have a material adverse impact on our net income in a particular quarterly or annual period.

Fluctuations in foreign currency exchange rates could adversely impact our profitability and financial condition.

We are exposed to foreign currency risk in our international operations. Principal International sells products denominated in various local currencies and generally invests the associated assets in local currencies. For diversification purposes, assets backing the products may be partially invested in non-local currencies. In our U.S. operations, we also issue foreign currency-denominated funding agreements to nonqualified investors in the institutional market or invest in foreign currency-denominated investments. The associated foreign currency exchange risk in each instance is hedged or managed to specific risk tolerances. Although our investment and hedging strategies limit the effect of currency exchange rate fluctuation on operating results, weakening of foreign currencies against the U.S. dollar would adversely affect the translation of the results of our international operations into our consolidated financial statements. For further discussion on foreign currency exchange risk, see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk — Foreign Currency Risk.”

Risks relating to estimates, assumptions and valuations

Our valuation of investments and the determinations of the amount of allowances and impairments taken on our investments may include methodologies, estimations and assumptions which are subject to differing interpretations and, if changed, could materially adversely affect our results of operations or financial condition.

Fixed maturities, equity securities and derivatives represent the majority of total cash and invested assets reported at fair value on our consolidated statements of financial position, excluding separate accounts. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (an exit price). Fair value estimates are made based on available market information and judgments about the financial instrument at a specific point in time. Considerable judgment is often required to develop estimates of fair value, and the use of different assumptions or valuation methodologies may have a material effect on the estimated fair value amounts.

For additional information on our valuation methodology, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements.”

During periods of market disruption including periods of significantly rising or high interest rates, rapidly widening credit spreads or illiquidity, it may be difficult to value certain securities, for example collateralized mortgage obligations and collateralized debt obligations, if trading becomes less frequent and/or market data becomes less observable. There may be certain asset classes that were in active markets with significant observable data that become illiquid due to the current financial environment. In such cases, the valuation process may require more subjectivity and management judgment. As such, valuations may include inputs and assumptions that are less observable or require greater estimation as well as valuation methods that require greater estimation, which could result in values that are different from the value at which the investments may be ultimately sold. Further, rapidly changing credit and equity market conditions could materially impact the valuation of securities as reported within our consolidated financial statements and the period-to-period changes in value could vary significantly. Decreases in value may have a material adverse effect on our results of operations or financial condition.

The determination of the amount of allowances and impairments varies by investment type and is based upon our periodic evaluation and assessment of known and inherent risks associated with the respective asset class. Such evaluations and assessments require significant judgment and are revised as conditions change and new information becomes available. Additional impairments may need to be taken or allowances provided for in the future, and the ultimate loss may exceed management's current loss estimates.

Additionally, our management considers a wide range of factors about the instrument issuer and uses its best judgment in evaluating the cause of the decline in the estimated fair value of the instrument and in assessing the prospects for recovery. Inherent in management's evaluation of the instrument are assumptions and estimates about the operations of the issuer and its future earnings potential. For further information regarding our impairment and allowance methodologies, see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Investments — U.S. Investment Operations" under the captions "Fixed Maturities" and "Mortgage Loans" and Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Valuation and Impairment of Fixed Income Investments."

Any impairments of or valuation allowances against our deferred tax assets could adversely affect our results of operations and financial condition.

Deferred tax liabilities and assets are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates expected to be in effect during the years in which the basis differences reverse. We are required to evaluate the recoverability of our deferred tax assets each quarter and establish a valuation allowance, if necessary, to reduce our deferred tax assets to an amount that is more-likely-than-not to be realizable. In determining the need for a valuation allowance, we consider many factors, including future reversals of existing taxable temporary differences, future taxable income exclusive of reversing temporary differences and carryforwards, taxable income in prior carryback years and implementation of any feasible and prudent tax planning strategies management would employ to realize the tax benefit.

Inherent in the provision for income taxes are estimates regarding the deductibility of certain items, the timing of income and expense recognition and the current or future realization of operating losses, capital losses, certain tax credits and future enacted changes in applicable tax rates as well as the tax base. In the event these estimates differ from our prior estimates due to the receipt of new information, we may be required to significantly change the provision for income taxes recorded in the consolidated financial statements. Any such change could significantly affect the amounts reported in the consolidated financial statements in the year these estimates change. A further significant decline in value of assets incorporated into our tax planning strategies could lead to an increase of our valuation allowance on deferred tax assets having an adverse effect on current and future results.

For additional information, see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Income Taxes."

We may face losses on our insurance and annuity products if our actual experience differs significantly from our pricing and reserving assumptions.

The profitability of our insurance and annuity products depends significantly upon the extent to which our actual experience is consistent with the assumptions used in setting prices for our products and establishing liabilities for future insurance and annuity policy benefits and claims. The premiums we charge and the liabilities we hold for future policy benefits are based on assumptions reflecting a number of factors, including the amount of premiums we will receive in the future, rate of return on assets we purchase with premiums received, expected claims, mortality, morbidity, lapse rates and expenses. However, due to the nature of the underlying risks and the high degree of uncertainty associated with the determination of the liabilities for unpaid policy benefits and claims, we cannot determine precisely the amounts we will ultimately pay to settle these liabilities, the timing of such payments, or whether the assets supporting the liabilities, together with any future premiums, will be sufficient to satisfy the liabilities.

As a result, we may experience volatility in the level of our profitability and our reserves from period to period. To the extent that actual experience is less favorable than our underlying assumptions, we could be required to increase our liabilities, which may harm our financial strength and reduce our profitability.

For example, if mortality or morbidity rates are higher than our pricing assumptions, we may be required to make greater claims payments on our insurance policies or pay claims sooner than we had projected. Concentrations of risk, by both geography and industry, may cause mortality or morbidity rates in our group insurance or individual disability insurance to be higher than anticipated.

Our results of operations may also be adversely impacted if our actual investment earnings differ from our pricing and reserve assumptions. Changes in economic conditions may lead to changes in market interest rates or changes in our investment strategies, either of which could cause our actual investment earnings to differ from our pricing and reserve assumptions.

For additional information on our insurance reserves, see Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Insurance Reserves.”

The pattern of amortizing our DAC asset and other actuarial balances on our universal life-type insurance contracts, participating life insurance policies and certain investment contracts may change, impacting both the level of our DAC asset and other actuarial balances and the timing of our net income.

Amortization of our DAC asset and other actuarial balances depends on the actual and expected profits generated by the lines of business that incurred the expenses. Expected profits are dependent on assumptions regarding a number of factors including investment returns, benefit payments, expenses, mortality and policy lapse. Due to the uncertainty associated with establishing these assumptions, we cannot, with precision, determine the exact pattern of profit emergence. As a result, amortization of these balances will vary from period to period. To the extent actual experience emerges less favorably than expected or our expectation for future profits decreases, our DAC asset and other actuarial balances may be adjusted, reducing our profitability in the current period.

For additional information, see Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Deferred Acquisition Costs and Other Actuarial Balances.”

Legal, regulatory and tax risks

Changes in laws or regulations may reduce our profitability or impact how we do business.

Our businesses are subject to comprehensive regulation and supervision throughout the U.S. and in the international markets in which we operate. We are also impacted by federal legislation and administrative policies in areas such as securities laws, employee benefit plan regulation, financial services regulations, U.S. federal taxation and international taxation. Changes in laws or regulations or the interpretation thereof could significantly increase our compliance costs and reduce our profitability. Failure to comply with applicable regulations may expose us to significant penalties, the suspension or revocation of licenses to conduct business and reputational damage.

Changes in insurance regulations may reduce our profitability.

Our insurance subsidiaries are subject to extensive supervision and regulation. In particular, in the U.S., the laws of the various states establish insurance departments with broad powers to supervise and regulate insurance companies. The supervision and regulation relate to numerous aspects of our business and financial condition, including insurance company laws that apply to PFG and to various transactions between our insurance companies and subsidiaries and other affiliates. The primary purpose of insurance regulation is to protect policyholders, not stockholders or creditors.

State insurance regulators, federal regulators and the NAIC continually reexamine existing laws and regulations and may impose changes in the future. New interpretations of existing laws and the passage of new legislation may harm our ability to sell new policies, increase our claims exposure on policies we issued previously and adversely affect our profitability and financial strength.

State insurance guaranty associations have the right to assess insurance companies doing business in their state for funds to help pay the obligations of insolvent insurance companies to policyholders and claimants. Because the amount and timing of an assessment are beyond our control, the liabilities we have established for these potential assessments may not be adequate. In addition, regulators may change their interpretation or application of existing laws and regulations.

The NAIC regularly reviews and updates its U.S. statutory reserve and RBC requirements. Changes to these requirements may increase the amount of reserves and capital our U.S. insurance companies are required to hold and may adversely impact Principal Life's ability to pay dividends to its parent. See Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Liquidity and Capital Resources" for a discussion of regulatory restrictions on Principal Life's ability to pay dividends. In addition, changes in statutory reserve or RBC requirements may adversely impact our financial strength ratings. See the risk factor entitled "A downgrade in our financial strength or credit ratings may increase policy surrenders and withdrawals, reduce new sales, terminate relationships with distributors, impact existing liabilities and increase our cost of capital, any of which could adversely affect our profitability and financial condition" for a discussion of risks relating to our financial strength ratings.

State regulators have implemented a principle-based reserving ("PBR") approach for individual life insurance. The framework is mandatory for new business beginning in 2020. Under the PBR framework, statutory reserves will reflect a combination of company experience and prescribed assumptions and methodologies. Also effective in 2020, state regulators have implemented changes to the principle-based reserve and capital requirements for variable annuities. The ultimate financial impact of these changes is uncertain, but they could result in more volatile and less predictable reserve and capital levels for these products.

We have implemented reinsurance transactions utilizing affiliated reinsurers and highly rated third parties to finance a portion of the reserves for our term life insurance policies and universal life insurance policies with secondary guarantees. Our ability to enter into new reserve financing transactions will continue to be dependent on the cost and forms of financing available in the market and our ability to obtain required regulatory approvals. For additional information regarding our use of affiliated reinsurance transactions, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 15, Statutory Insurance Financial Information."

The NAIC is pursuing a variety of reforms to its RBC framework, which could increase our capital requirements for our U.S. insurance businesses. The NAIC is also pursuing the development of a group-wide capital calculation. This calculation is not intended to be a regulatory capital requirement, but it could be used by regulators in their supervisory process.

Our international insurance businesses are also subject to comprehensive regulation and supervision from central and/or local governmental authorities in each country in which we operate. New interpretations of existing laws and regulations or the adoption of new laws and regulations may harm our international businesses, increase the cost of compliance and reduce our profitability in those businesses.

The International Association of Insurance Supervisors ("IAIS") has proposed a common framework for the supervision of Internationally Active Insurance Groups ("IAIGs"). For systemic risk management, the Financial Stability Board is continuing to implement group supervisory and capital requirements for Global Systemically Important Insurers ("G-SIIs"). We currently are not designated as an IAIG or a G-SII. If we were so designated in the future, we may be subject to supervision and capital requirements beyond those applicable to any competitors without those designations. These international frameworks may influence the regulatory capital requirements in the jurisdictions in which we operate, potentially leading to an increase in our capital requirements.

Changes in federal, state and international securities laws may reduce our profitability.

Our asset management and accumulation and life insurance businesses are subject to various levels of regulation under federal, state and international securities laws. For example, insurance and investment products such as variable annuities, variable life insurance, mutual fund products and some funding agreements that constitute securities are subject to securities laws and regulations, including state securities regulation as well as federal regulation under the SEC, FINRA and other regulatory authorities. These laws and regulations are primarily intended to protect investors in the securities markets or investment advisory or brokerage clients and generally grant supervisory agencies and self-regulatory organizations broad administrative powers, including the power to limit or restrict the conduct of business for failure to comply with such laws and regulations. In addition, we are subject to local laws and regulations in the global jurisdictions in which we offer or provide asset management services and products. Changes to these laws or regulations, or the interpretation thereof, that restrict the conduct of our business could significantly increase our compliance costs and reduce our profitability.

Changes in employee benefit regulations may reduce our profitability.

We provide products and services to certain employee benefit plans that are subject to ERISA or the Internal Revenue Code of 1986, as amended. The U.S. Congress has, from time to time, considered legislation relating to changes in ERISA to permit application of state law remedies, such as consequential and punitive damages, in lawsuits for wrongful denial of benefits, which, if adopted, could increase our liability for damages in future litigation. In addition, reductions in contribution levels to defined contribution plans may decrease our profitability.

In 2017, regulations issued by the DOL became effective, which expanded the scope of activities constituting fiduciary investment advice and imposed a “best interest” standard on advisors. The DOL’s fiduciary rule was vacated by a Fifth Circuit Court of Appeals decision in 2018. The DOL has stated that it plans to issue revised regulations for fiduciary investment advice. However, as of the date hereof, we do not know what those regulations may include, or what their impact may be on our products and services.

On June 5, 2019, the SEC voted to adopt a package of four rulemakings and interpretive releases designed to enhance the quality and transparency of retail investors’ relationships with investment advisers and broker-dealers while preserving investor choice with respect to obtaining advice, entering into advice relationships and purchasing investment products. Given the rules’ application to retail investors, Regulation Best Interest (“Reg BI”) does not apply to recommendations to retirement plan sponsors but it does encompass recommendations made to retirement plan participants involving investment of plan assets, distributions from a plan and transfers of assets from one type of account to another (e.g., workplace retirement plan to an IRA). Following the Fifth Circuit Court of Appeals decision to vacate the DOL fiduciary rule, we maintained policies and procedures established for compliance with the fiduciary rule that are intended to ensure interactions with retirement plan participants are educational in nature, helping individuals make their own informed decisions related to investment of plan assets and distribution options. As a result, the bulk of our efforts in preparing for compliance are focused on meeting the necessary disclosure requirements of Reg BI and Form CRS (Customer Relationship Summary). The rulemaking package was published in the Federal Register on July 12, 2019, making the technical effective date September 10, 2019; however, the SEC’s deadline to comply with Reg BI and the CRS Rule (for full implementation) is June 30, 2020, which is when policies and procedures will need to be in place, including the new disclosure requirements under the CRS Rule and Reg BI.

Reg BI has been challenged both through legislative attempts to amend or repeal it and through lawsuits filed to invalidate it. So far, Reg BI remains intact, but the legislative and legal challenges create continued uncertainty.

Notwithstanding the SEC finalizing Reg BI in 2019, some states will likely still consider changes to their own insurance and securities laws and/or regulations in 2020. In 2019, Nevada, New Jersey, and Massachusetts proposed regulations imposing a fiduciary duty for the sale of securities and the NAIC is on track to adopt best interest enhancements to its existing annuity suitability model in early 2020. Related state fiduciary or “best interest” legislation and/or regulation is expected in 2020.

Financial services regulatory reform may reduce our profitability, impact how we do business or limit our ability to engage in certain capital expenditures.

On July 21, 2010, the Dodd-Frank Act became law. The Act makes extensive changes to the laws regulating financial services firms and requires various federal agencies to adopt a broad range of new implementation rules and regulations, including those surrounding the use of derivatives. Some aspects of Dodd-Frank continue to be implemented, and there are some efforts to eliminate or adjust certain elements of the law. Uncertainty remains regarding the continued implementation of and potential adjustments to Dodd-Frank, and it is uncertain whether changes to Dodd-Frank will result in a material effect on our business operations.

Changes in cybersecurity or privacy regulations may increase our compliance costs and lead to increased scrutiny.

We are subject to numerous federal, state, and international regulations regarding the privacy and security of personal information. These laws vary widely by jurisdiction. Recent regulations with a significant impact on our operations include the European Union (“EU”) GDPR, the New York Department of Financial Services Part 500 cybersecurity requirements for financial services companies and the California Consumer Privacy Act. GDPR became effective in May 2018 for EU data subjects. GDPR includes numerous protections for individuals in the EU, including but not limited to notification requirements for data breaches, the right to access personal data, and the right to be forgotten. Other countries have enacted, or are considering enacting, legislation that is similar in scope to GDPR. The New York Department of Financial Services Part 500 cybersecurity requirements, which became effective in March 2017, focus on minimum standards for cybersecurity programs. The California Consumer Privacy Act, which is effective as of January 1, 2020, contains similar consumer protections to those in the EU GDPR and applies to companies doing business in California. Similar standards are set forth in the NAIC’s Insurance Data Security Model Law. It is anticipated that additional federal, state and international regulations will continue to be enacted in the future. Changes in existing cybersecurity and privacy regulations or the enactment of new regulations may increase our compliance costs and failure to comply with these regulations may lead to reputational damage, fines or civil damages, and increased regulatory scrutiny.

Changes in tax laws could increase our tax costs and reduce sales of our insurance, annuity and investment products.

Many of the insurance, annuity, and investment products we issue receive favorable tax treatment under current U.S. federal income tax laws. Changes in U.S. federal income tax laws could reduce or eliminate the tax advantages of certain of our products, thus making these products less attractive to our customers. This may lead to a reduction in sales and deposits, which may adversely impact our profitability.

In addition, we benefit from certain tax items, including but not limited to, dividends received deductions, tax credits (such as foreign tax credits), tax-exempt bond interest and insurance reserve deductions. From time to time, the U.S. Congress, as well as foreign, state and local governments, consider legislative changes that could reduce or eliminate the benefits associated with these and other tax items, some of which were impacted by the U.S. tax reform. The Organisation for Economic Co-operation and Development has released proposed policies around Base Erosion and Profit Shifting and modernizing global tax systems originally designed to only account for physical presence. Our profitability could be negatively impacted as legislation is adopted by participating countries. We continue to evaluate the impact potential tax reform proposals may have on our future results of operations and financial condition.

For a discussion of the impact of recently adopted tax legislation, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes.”

We may not be able to protect our intellectual property and may be subject to infringement claims.

We rely on a combination of contractual rights and copyright, trademark, patent and trade secret laws to establish and protect our intellectual property. Third parties may infringe or misappropriate our intellectual property. We may have to litigate to enforce and protect our copyrights, trademarks, patents, trade secrets and know-how or to determine their scope, validity or enforceability, which represents a diversion of resources that may be significant in amount and may not prove successful. The loss of intellectual property protection or the inability to secure or enforce the protection of our intellectual property assets could have a material adverse effect on our business and our ability to compete.

We also may be subject to costly litigation in the event another party alleges our operations or activities infringe upon such other party’s intellectual property rights. Third parties may have, or may eventually be issued, patents or other protections that could be infringed by our products, methods, processes or services or could otherwise limit our ability to offer certain product features. Any party that holds such a patent could make a claim of infringement against us. We may also be subject to claims by third parties for breach of copyright, trademark, license usage rights, or misappropriation of trade secret rights. Any such claims and any resulting litigation could result in significant liability for damages. If we were found to have infringed or misappropriated a third party patent or other intellectual property rights, we could incur substantial liability, and in some circumstances could be enjoined from providing certain products or services to our customers or utilizing and benefiting from certain methods, processes, copyrights, trademarks, trade secrets or licenses, or alternatively could be required to enter into costly licensing arrangements with third parties, all of which could have a material adverse effect on our business, results of operations and financial condition.

Our ability to pay stockholder dividends and meet our obligations may be constrained by the limitations on dividends Iowa insurance laws impose on Principal Life.

We are an insurance holding company whose assets include all of the outstanding shares of the common stock of Principal Life and other subsidiaries. Our ability to pay dividends to our stockholders and meet our obligations, including paying operating expenses and any debt service, depends upon the receipt of dividends from Principal Life. Iowa insurance laws impose limitations on the ability of Principal Life to pay dividends to its parent. Any inability of Principal Life to pay dividends in the future may cause us to be unable to pay dividends to our stockholders and meet our other obligations. See Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations — Liquidity and Capital Resources” for a discussion of regulatory restrictions on Principal Life’s ability to pay dividends.

Changes in accounting standards may adversely affect our reported results of operations and financial condition.

Our consolidated financial statements are prepared in conformity with U.S. generally accepted accounting principles (“U.S. GAAP”). From time to time, we are required to adopt new or revised accounting standards issued by the Financial Accounting Standards Board (“FASB”). The required adoption of future accounting standards may adversely affect our reported results of operations and financial condition. For a discussion of the impact of accounting pronouncements issued but not yet implemented, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 1, Nature of Operations and Significant Accounting Policies”. In August 2018, the FASB issued final guidance on targeted improvements to the accounting for long-duration insurance contracts.

The guidance will become effective for us on January 1, 2022. As we progress through our implementation, we will be able to better assess the impact to our consolidated financial statements; however, we expect it will significantly change how we account for many of our insurance and annuity products and it could negatively impact our reported profitability and financial ratios. In addition, the required adoption of new accounting standards may result in significant incremental costs associated with initial implementation and ongoing compliance.

Litigation and regulatory investigations may affect our financial strength or reduce our profitability.

We are regularly involved in litigation, both as a defendant and as a plaintiff, but primarily as a defendant. Litigation naming us as a defendant ordinarily arises out of our business operations as a provider of asset management and accumulation products and services; individual life insurance and specialty benefits insurance; and our investment activities. We are, from time to time, also involved in various governmental, regulatory and administrative proceedings and inquiries.

Legal liability or adverse publicity with respect to current or future legal or regulatory actions, whether or not involving us, may affect our financial strength or reduce our profitability. For further discussion on litigation and regulatory investigation risk, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 12, Contingencies, Guarantees, Indemnifications and Leases” under the caption, “Litigation and Regulatory Contingencies” and Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes” under the caption “Other Tax Information.”

From time to time we may become subject to tax audits, tax litigation or similar proceedings, and as a result we may owe additional taxes, interest and penalties in amounts that may be material.

We are subject to income taxes in the United States as well as many other jurisdictions. In determining our provisions for income taxes and our accounting for tax-related matters in general, we are required to exercise judgment. We regularly make estimates where the ultimate tax determination is uncertain. The final determination of any tax audit, appeal of the decision of a taxing authority, tax litigation or similar proceedings may be materially different from that reflected in our historical financial statements. The assessment of additional taxes, interest and penalties could be materially adverse to our current and future results of operations and financial condition.

Applicable laws and our certificate of incorporation and by-laws may discourage takeovers and business combinations that some stockholders might consider in their best interests.

State laws and our certificate of incorporation and by-laws may delay, defer, prevent, or render more difficult a takeover attempt that some stockholders might consider in their best interests. For instance, they may prevent our stockholders from receiving the benefit from any premium to the market price of our common stock offered by a bidder in a takeover context. Even in the absence of a takeover attempt, the existence of these provisions may adversely affect the prevailing market price of our common stock if they are viewed as discouraging takeover attempts in the future.

State laws and our certificate of incorporation and by-laws may also make it difficult for stockholders to replace or remove our management. These provisions may facilitate management entrenchment, which may delay, defer or prevent a change in our control, which may not be in the best interests of our stockholders.

The following provisions, included in our certificate of incorporation and by-laws, may also have anti-takeover effects and may delay, defer or prevent a takeover attempt that some stockholders might consider in their best interests. In particular, our certificate of incorporation and by-laws:

- permit our Board of Directors to issue one or more series of preferred stock;
- divide our Board of Directors into three classes;
- limit the ability of stockholders to remove directors;
- prohibit stockholders from filling vacancies on our Board of Directors;
- prohibit stockholders from calling special meetings of stockholders;
- impose advance notice requirements for stockholder proposals and nominations of directors to be considered at stockholder meetings and
- require the approval of at least 75% of the voting power of our outstanding common stock for the amendment of our by-laws and provisions of our certificate of incorporation governing:

- the classified board,
- the director's discretion in determining what he or she reasonably believes to be in the best interests of PFG,
- the liability of directors,
- the removal of directors by shareholders,
- the prohibition on stockholder actions by written consent and
- the supermajority voting requirements.

In addition, Section 203 of the General Corporation Law of the State of Delaware may limit the ability of an "interested stockholder" to engage in business combinations with us. An interested stockholder is defined to include persons owning 15% or more of our outstanding voting stock.

Risks relating to our business

Competition, including from companies that may have greater financial resources, broader arrays of products, higher ratings and stronger financial performance, may impair our ability to retain existing customers, attract new customers and maintain our profitability.

We believe our ability to compete is based on a number of factors including scale, service, product features, price, investment performance, commission structure, distribution capacity, financial strength ratings and name recognition. We compete with a large number of financial services companies such as banks, mutual funds, institutional trust companies, broker-dealers, insurers and asset managers, many of which have advantages over us in one or more of the above competitive factors.

Each of our segments faces strong competition:

- The primary competitors for our Retirement and Income Solutions and Principal Global Investors segments are asset managers, banks, mutual funds, institutional trust companies, broker-dealers and insurers. Our ability to increase and retain AUM is directly related to the performance of our investments as measured against market averages and the performance of our competitors. Even when securities prices are generally rising, performance can be affected by investment styles.
- Competition for our Principal International segment comes primarily from local financial services firms and other international companies operating on a stand-alone basis or in partnership with local firms.
- Our U.S. Insurance Solutions segment competes with other insurance companies.

In the event competitors charge lower premiums or fees for substantially similar products, we may face pressure to lower our prices in order to attract and retain customers and distributors. Reductions in the premiums and fees we charge may adversely affect our revenues and profitability.

Technological and societal changes may disrupt our business model and impair our ability to retain existing customers, attract new customers and maintain our profitability.

Technological advances, innovation in the financial services industry and societal changes may impact our business model and competitive position. These changes may lead to significant changes in the marketing, distribution, underwriting and pricing of financial services products. In addition, technological and societal changes may lead to changes in customers' preferences as to how they want to interact with us and the types of products they want to buy. We may need to change our distribution channels, our customer service model or our product offerings to accommodate evolving customer preferences. Implementing these changes may require significant expenditures. To the extent our competitors are more successful than us at adapting to technological changes and evolving customer preferences, our competitive position and profitability may be adversely impacted.

Advances in medical technology may also adversely impact our profitability. Increases in the availability and accuracy of genetic testing may increase our exposure to anti-selection risk. In addition, medical advances may lead to increased longevity. As a result, we may be required to pay annuity benefits over a longer period of time than we had projected, thereby reducing the profitability of our annuity products.

Damage to our reputation may adversely affect our revenues and profitability.

Our continued success is dependent upon our ability to earn and maintain the trust and confidence of customers, distributors, employees and other stakeholders. Damage to our reputation may arise from a variety of sources including, but not limited to, litigation or regulatory actions, compliance failures, employee misconduct, cybersecurity incidents, unfavorable press coverage, and unfavorable comments on social media. Adverse developments within our industry may also, by association, negatively impact our reputation or result in greater regulatory or legislative scrutiny. Any damage to our reputation could adversely affect our ability to attract and retain customers, distributors and employees, potentially leading to a reduction in our revenues and profitability.

A downgrade in our financial strength or credit ratings may increase policy surrenders and withdrawals, reduce new sales, terminate relationships with distributors, impact existing liabilities and increase our cost of capital, any of which could adversely affect our profitability and financial condition.

A.M. Best, Fitch, Moody's and S&P publish financial strength ratings on U.S. life insurance companies as well as some of our international insurance companies. These ratings indicate the applicable rating agency's opinion regarding an insurance company's ability to meet contractholder and policyholder obligations. These rating agencies also assign credit ratings on non-life insurance entities, such as PFG and Principal Financial Services, Inc. ("PFS"). Credit ratings indicate the applicable rating agency's opinion regarding a debt issuer's ability to meet the terms of debt obligations in a timely manner and are important factors in overall funding profile and ability to access external capital.

Ratings are important factors in establishing the competitive position of insurance companies and maintaining public confidence in products being offered. Our ratings could be downgraded at any time without advance notice by any rating agency. A ratings downgrade, or the potential for such a downgrade, could, among other things:

- materially increase the number of surrenders for all or a portion of the net cash values by the owners of policies and contracts we have issued, and materially increase the number of withdrawals by policyholders of cash values from their policies;
- result in the termination of our relationships with broker-dealers, banks, agents, wholesalers and other distributors of our products and services;
- reduce new sales, particularly with respect to pension risk transfer products and general account GICs and funding agreements purchased by pension plans and other institutions;
- cause some of our existing liabilities to be subject to acceleration, additional collateral support, changes in terms, or creation of additional financial obligations; and
- increase our cost of capital and limit our access to the capital markets.

Any of these consequences could adversely affect our profitability and financial condition.

Client terminations or withdrawals or changes in investor preferences may lead to a reduction in revenues for our asset management and accumulation businesses.

Revenues from our asset management and accumulation products are primarily fee-based. Our asset-based fees are typically calculated as a percentage of the market value of assets under management. Our asset management and accumulation clients may elect to terminate their relationship with us or withdraw funds, generally on short notice. Client terminations and withdrawals may be driven by a variety of factors, including economic conditions, investment performance, investor preferences or changes in our reputation in the marketplace. Significant terminations or withdrawals may reduce our AUM, thus adversely affecting our revenues and profitability.

In addition, fee levels can vary significantly among different types of investments. We generally earn higher fees on liquid alternatives and equity investments vs. fixed income investments and on actively managed investments vs. indexed or passive investment strategies. Therefore, our fee revenue is impacted by both the value and the composition of our AUM. Investor preferences with respect to asset classes and investment strategies may shift over time due to market conditions, tax law changes, regulatory changes and various other factors. Changes in the composition of our assets under management may adversely affect our revenues and profitability.

Guarantees within certain of our products that protect policyholders may decrease our net income or increase the volatility of our results of operations or financial position under U.S. GAAP if our hedging or risk management strategies prove ineffective or insufficient.

Certain of our variable annuity products include guaranteed minimum death benefits and/or guaranteed minimum withdrawal benefits. Periods of significant and sustained downturns in equity markets, increased equity volatility or reduced interest rates could result in an increase in the valuation of the future policy benefit or contractholder fund liabilities associated with such products, resulting in a reduction to net income. We use derivative instruments to attempt to mitigate changes in the liability exposure related to interest rate, equity market and volatility movements, and the volatility of net income associated with these liabilities. However, we remain liable for the guaranteed benefits in the event that derivative counterparties are unable or unwilling to pay. The liability exposure and volatility of net income may also be influenced by changes in market credit spreads reflecting our own creditworthiness, for which we do not attempt to hedge. In addition, we are subject to the risk that hedging and other management procedures prove ineffective or that unanticipated policyholder behavior or mortality, combined with adverse market events, produces economic losses beyond the scope of the risk management techniques employed. These, individually or collectively, may have a material adverse effect on our net income, financial condition or liquidity. We are also subject to the risk that the cost of hedging these guaranteed minimum benefits increases as implied volatilities increase and/or interest rates decrease, resulting in a reduction to net income.

If we are unable to attract and retain qualified employees and sales representatives and develop new distribution sources, our results of operations, financial condition and sales of our products may be adversely impacted.

Our continued success is largely dependent on our ability to attract and retain qualified employees. We face intense competition in attracting and retaining key employees, including investment, marketing, finance, information technology, legal, compliance and other professionals. If we are unable to attract and retain qualified employees, our results of operations and financial condition may be adversely impacted.

We distribute our asset accumulation, asset management and life and specialty benefit insurance products and services through a variety of distribution channels, including our own internal sales representatives, independent brokers, banks, broker-dealers and other third-party marketing organizations. We must attract and retain sales representatives to sell our products. Strong competition exists among financial services companies for efficient sales representatives. We compete with other financial services companies for sales representatives primarily on the basis of our financial position, support services and compensation and product features. If we are unable to attract and retain sufficient sales representatives to sell our products, our ability to compete and revenues from new sales would suffer.

Our ability to increase and retain AUM is directly related to the performance of our investments as measured against market averages and the performance of our competitors. If we are unable to attract and retain qualified portfolio managers, we may face reduced sales and increased cash outflows in our asset accumulation and asset management businesses.

An interruption in telecommunication, information technology, or other systems, or a failure to maintain the confidentiality, integrity, or availability of data residing on such systems, could disrupt our business, damage our reputation and adversely impact our profitability.

We rely on telecommunication, information technology, and other systems to conduct business, including customer service, marketing and sales activities, customer relationship management and producing financial statements. In addition, we store and process confidential and proprietary business information on both company owned and third party and/or vendor managed systems, including cloud service providers.

Financial services companies have increasingly become targets of cyberattacks resulting in unauthorized access to confidential information, theft of funds from online accounts, disruption or degradation of service or other damage. These attacks may take a variety of forms, including web application attacks, denial of service attacks, ransomware and other viruses, malware and social engineering, including phishing. We have policies, procedures, security controls and monitoring, automation and backup plans designed to prevent, or limit the effect of failure; however, the sophistication of cybercriminals may still result in disruptions or breaches beyond our control. The failure of our telecommunication, information technology, or other systems, for any reason, could disrupt our operations, result in the loss of business and adversely impact our profitability.

Any compromise of the security of our systems that results in the disclosure of personally identifiable customer or employee information could damage our reputation, deter customers from purchasing our products and services, expose us to litigation, increase regulatory scrutiny and require us to incur significant technical, legal and other expenses. In addition, personally identifiable information about our customers, along with potential log-in credentials, are increasingly available to hackers due to data breaches at other companies and inadvertent disclosure by customers, such as through phishing and password reuse. Cybercriminals may use this information to attempt to gain unauthorized access to our customers' accounts, which could have a material adverse impact on our reputation, results of operations, and financial condition.

Our international businesses face political, legal, operational and other risks that could reduce our profitability in those businesses.

Our international businesses face political, legal, operational and other risks that we do not face in our operations in the U.S. We face the risk of discriminatory regulation, nationalization or expropriation of assets, price controls and exchange controls or other restrictions that prevent us from transferring funds from these operations out of the locations in which they operate or converting local currencies we hold into U.S. dollars or other currencies. Our international businesses also face the risk of political instability and social unrest, which may lead to disruptions to those businesses and to local financial markets and commerce and reduced economic activity in the countries in which we operate. Some of our international businesses are, and are likely to continue to be, in emerging or potentially volatile markets. In addition, we rely on local staff, including local sales forces, in those locations where there is a risk we may encounter labor problems with local staff, especially in locations where workers' associations and trade unions are strong.

We face risks arising from our participation in joint ventures.

We participate in joint ventures, primarily in our international businesses and real estate investment operations. In these joint ventures, we lack complete management and operational control over the operations, and our joint venture partners may have objectives that are not fully aligned with our interests. These factors may limit our ability to take action to protect or increase the value of our investment in the joint venture.

We may need to fund deficiencies in our Closed Block assets.

In connection with its conversion in 1998 into a stock life insurance company, Principal Life established an accounting mechanism, known as a "Closed Block" for the benefit of participating ordinary life insurance policies that had a dividend scale in force on July 1, 1998. We allocated assets to the Closed Block as of July 1, 1998, in an amount such that we expected their cash flows, together with anticipated revenues from the policies in the Closed Block, to be sufficient to support the Closed Block business, including payment of claims, certain direct expenses, charges and taxes and to provide for the continuation of aggregate dividend scales in accordance with the 1997 policy dividend scales if the experience underlying such scales continued, and to allow for appropriate adjustments in such scales if the experience changed. We will continue to pay guaranteed benefits under the policies included in the Closed Block, in accordance with their terms. The Closed Block assets, cash flows generated by the Closed Block assets and anticipated revenues from policies included in the Closed Block may not be sufficient to provide for the benefits guaranteed under these policies. If they are not sufficient, we must fund the shortfall. Even if they are sufficient, we may choose for business reasons to support dividend payments on policies in the Closed Block with our general account funds.

The Closed Block assets, cash flows generated by the Closed Block assets and anticipated revenues from policies in the Closed Block will benefit only the holders of those policies. In addition, to the extent these amounts are greater than the amounts estimated at the time we funded the Closed Block, dividends payable in respect of the policies included in the Closed Block may be greater than they would have been in the absence of a Closed Block. Any excess net income will be available for distribution over time to Closed Block policyholders but will not be available to our stockholders. See Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 6, Closed Block" for further details.

A pandemic, terrorist attack, military action or other catastrophic event could adversely affect our operations, net income or financial condition.

The occurrence of pandemic disease, man-made disasters such as terrorist attacks and military actions, and natural disasters could adversely affect our operations, net income or financial condition. For example, our mortality and morbidity experience could be adversely impacted by a catastrophic event. In addition, a severe catastrophic event may cause significant volatility in global financial markets, disruptions to commerce and reduced economic activity. The resulting macroeconomic conditions could adversely affect our cash flows, as well as the value and liquidity of our invested assets. We may also experience operational disruptions if our employees are unable or unwilling to come to work due to a pandemic or other catastrophe.

Our reinsurers could default on their obligations or increase their rates, which could adversely impact our net income and financial condition.

We cede life, disability, medical and long-term care insurance to other insurance companies through reinsurance. See Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 1, Nature of Operations and Significant Accounting Policies." The collectability of reinsurance recoverables is largely dependent on the solvency of the individual insurers. We remain liable to the policyholder, even if the reinsurer defaults on its obligations with respect to the ceded business. In addition, a reinsurer's insolvency may cause us to lose our reserve credits on the ceded business, in which case we would be required to establish additional reserves.

The premium rates we charge are based, in part, on the assumption that reinsurance will be available at a certain cost. Most of our reinsurance contracts contain provisions that limit the reinsurer's ability to increase rates on in-force business; however, some do not. If a reinsurer raises the rates it charges on a block of in-force business, our profitability may be negatively impacted if we are not able to pass the increased costs on to the customer. If reinsurers raise the rates they charge on new business, we may be forced to raise the premiums we charge, which could have a negative impact on our competitive position.

We face risks related to our acquisition of Wells Fargo Bank, N.A.'s IRT business

We may not realize the expected benefits of our acquisition of Wells Fargo Bank, N.A.'s IRT business because of integration difficulties, delays in the transfer of purchased assets or other challenges.

On July 1, 2019, we closed the acquisition (the "Acquisition") of the IRT business of Wells Fargo Bank, N.A. (the "Seller"). The success of the Acquisition depends, in part, on our ability to successfully integrate and operate the Acquired Business in conjunction with our existing businesses. The integration process may be complex, costly and time-consuming. The potential difficulties of integrating the operations of the Acquired Business include, among others:

- implementing our business plan for the combined business;
- unanticipated issues in integrating logistics, information, communications and other systems;
- retaining and integrating key employees of the Seller;
- retaining and growing the customers of the Acquired Business;
- changes in applicable laws and regulations or conditions imposed by regulators;
- operating risks inherent in the Acquired Business and our existing businesses and
- realizing revenue and expense synergies.

We may not accomplish the integration of the Acquired Business smoothly, successfully or within the anticipated costs or timeframe. In particular, the transfer to us of many of the purchased assets, including contracts with customers and vendors of the Acquired Business, has not yet been effectuated and, if the requisite consents of contractual counterparties of the Acquired Business or other third parties are not received, may not be effectuated at all. Furthermore, we are reliant upon the Seller to continue to provide services to the Acquired Business for a transitional period following the closing of the transaction. Any difficulties or delays encountered in combining operations could prevent us from realizing the full benefits anticipated to result from the Acquisition and could adversely affect our business, results of operations and/or financial condition. In addition, the Acquired Business may not meet our expectations, causing our financial results to differ from our own or the investment community's expectations. It is possible that the Acquired Business may be adversely affected by regulatory, political, economic, business or competitive factors in the future, which could prevent us from realizing the anticipated benefits of the Acquisition. The Acquisition may also divert our management's attention from our current operations to the integration effort, which could have a negative effect on our business, results of operations and/or financial condition.

The obligations and liabilities of the Seller, some of which may be unanticipated or unknown, may be greater than we have anticipated, which may diminish the value of the Acquired Business to us.

In connection with the Acquisition, we will assume certain liabilities of the Seller and its affiliates, including, among others: specified current liabilities; liabilities arising under the terms (or from the performance) of specified transferred contracts; liabilities arising out of the employment or termination of employment of employees of the Acquired Business and liabilities relating to certain purchased assets. The assumed liabilities may be greater than we have anticipated. The obligations and liabilities of the Seller could have a material adverse effect on the value of the Acquired Business to us or on our business, financial condition or results of operations. We have only limited indemnification rights from the Seller under the purchase agreement for the Acquisition with respect to obligations or liabilities of the Seller, whether known or unknown.

The Acquired Business may present risks that could have a negative effect on our business, results of operations and/or financial condition.

As a result of the Acquisition, we will for the first time provide trust and custody services for non-retirement plan assets of corporations, foundations, municipalities and other institutions. In addition, as a result of the Acquisition, we will expand the size of the trust and custody services we currently provide to defined contribution 401(k), defined benefit, employee stock ownership and non-qualified plans.

The entry into and expansion of these business lines may present risks and uncertainties that could have a negative effect on our business, results of operations and/or financial condition, including adverse customer retention. On an ongoing basis, our bank regulators will closely watch our capability to successfully manage this expansion, and they may compel remediation activities and potentially impose fines if they find our compliance to be insufficient.

Trust and custody services primarily are a fee-based business, and fees for such trust and custody services may be based on the market value of assets under management, administration or custody; the volume of transactions processed and fees for other services rendered. Disruptions, uncertainty or volatility in the capital markets; weak economic conditions and/or declines in the financial markets may decrease our fee-based revenue, which may negatively impact our results of operations. The market for trust and custody business is highly competitive. In the event that competitors charge lower fees for substantially similar trust and custody services, we may face pressure to lower our prices in order to attract and retain customers, and any reductions in the fees we charge for these services may adversely affect our revenue, and, accordingly, negatively impact our results of operations. Trust and custody services also include revenues that will vary based on interest rates and customer account balances.

The Acquired Business involves the risk that clients or others may sue us, claiming that we or third parties for whom they say we are responsible have failed to perform under a contract or otherwise failed to carry out a duty perceived to be owed to them, including perceived fiduciary or contractual duties. This risk may be heightened during periods when credit, equity or other financial markets are deteriorating in value or are particularly volatile, or when clients or investors are experiencing losses. Actions brought against us may result in lawsuits, enforcement actions, injunctions, settlements, damages, fines or penalties, which could have a negative effect on our financial condition or results of operations or require changes to our business. These risks could result in increased regulatory supervision and affect our ability to attract and retain customers.

We face risks arising from future acquisitions of businesses.

We have acquired businesses in the past, including the Acquired Business, and expect to continue to do so in the future. We face a number of risks arising from future acquisition transactions, including difficulties in integrating the acquired business into our operations, difficulties in assimilating and retaining employees and intermediaries, difficulties in retaining the existing customers of the acquired entity, unforeseen liabilities that arise in connection with the acquired business, unfavorable market conditions that could negatively impact our growth expectations for the acquired business and sustained declines in the equity market that could reduce the AUM and fee revenues for certain acquired businesses. These risks may prevent us from realizing the expected benefits from future acquisitions and could result in the impairment of goodwill and/or intangible assets recognized at the time of acquisition.

For additional information on our goodwill and other intangible assets, see Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Goodwill and Other Intangible Assets.”

Loss of key vendor relationships or failure of a vendor to protect information of our customers or employees could adversely affect our business or result in losses.

We rely on services and products provided by many vendors in the United States and abroad. These include, for example, vendors of computer hardware and software and vendors of services. In the event that one or more of our vendors suffers a bankruptcy or otherwise becomes unable to continue to provide products or services or fails to protect personal information of our customers or employees, we may suffer operational impairments, reputational damage and financial losses.

Our enterprise risk management framework may not be fully effective in identifying or mitigating all of the risks to which we are exposed.

We utilize an integrated risk management framework, which is designed to manage material risks within established risk appetites and risk tolerances. Nonetheless, our policies and procedures may not be fully effective in identifying or mitigating every risk to which we are exposed. Many of our methods for managing and mitigating risk rely on models and assumptions that are based, in part, on observed historical data. As a result, these methods may not accurately predict future exposures, which may be significantly greater than our historical measures indicate. We may be exposed to unanticipated risks as a result of changes in market conditions, new products or new business strategies, catastrophes or other unforeseen circumstances. If our risk management framework proves ineffective, we may suffer unexpected losses, which may adversely affect our results of operations and financial condition.

Our financial results may be adversely impacted by global climate changes.

Atmospheric concentrations of carbon dioxide and other greenhouse gases have increased dramatically since the industrial revolution, resulting in a gradual increase in global average temperatures and an increase in the frequency and severity of natural disasters. These trends are expected to continue in the future and have the potential to impact nearly all sectors of the economy to varying degrees. We cannot predict the long-term impacts of climate change, but we will continue to monitor new developments in the future.

Potential impacts may include the following:

- Changes in temperatures and air quality may adversely impact our mortality and morbidity rates. For example, increases in the level of pollution and airborne allergens may cause an increase in upper respiratory and cardiovascular diseases, leading to increased claims in our insurance businesses. However, the risk of increased mortality on our life insurance business may be partly offset by our payout annuity business, where an increase in mortality results in a decrease in benefit payments.
- Climate change may impact asset prices, as well as general economic conditions. For example, rising sea levels may lead to decreases in real estate values in coastal areas. Additionally, government policies to slow climate change (e.g., setting limits on carbon emissions) may have an adverse impact on sectors such as utilities, transportation and manufacturing. Changes in asset prices may impact the value of our fixed income, real estate and commercial mortgage investments. We manage our investment risks by maintaining a well-diversified portfolio, both geographically and by sector. We also monitor our investments on an ongoing basis, allowing us to adjust our exposure to sectors and/or geographical areas that face severe risks due to climate change.
- We maintain extensive business continuity and disaster recovery planning programs. Nonetheless, a natural disaster that affects one of our office locations could disrupt our operations and pose a threat to the safety of our employees.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

As of December 31, 2019, we owned 30 properties in our home office complex in Des Moines, Iowa, and in various other locations. Of these 30 properties, 14 are office buildings, 1 is a warehouse facility, 12 are parking lots and ramps, 1 is a park/green space, 1 is a childcare center and 1 is a power generation plant. Of the office and warehouse space, we occupy approximately 91.9% of the 2.6 million square feet of space in these buildings. The balance of the space in these buildings is rented to commercial tenants or is occupied by the property management company servicing these properties. We lease office space for various offices located throughout the U.S. and internationally. We believe that our owned and leased properties are suitable and adequate for our current business operations.

Item 3. Legal Proceedings

Disclosure concerning legal proceedings can be found in Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 12, Contingencies, Guarantees, Indemnifications and Leases” under the caption, “Litigation and Regulatory Contingencies” and Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes” under the caption, “Other Tax Information,” which are incorporated here by this reference.

Information about our Executive Officers

The following information is furnished with respect to our executive officers, each of whom is elected by and serves at the pleasure of the Board of Directors.

Timothy M. Dunbar, 62, has been President of Global Asset Management of the Company and Principal Life since September 2018 and Executive Vice President of the Company and Principal Life and Chief Investment Officer of the Company since January 2014. Prior to that date, he served as Senior Vice President of the Company and Principal Life since 2011, and Chief Investment Officer of the Company and Principal Life since January 2013. Prior to that date, Mr. Dunbar was in charge of Strategy and Finance for the Company and Principal Life in 2011 and 2012, overseeing the business management and strategic direction of the capital markets, corporate strategy and corporate treasury areas. Mr. Dunbar previously served as the executive director and head of equities for Principal Global Investors from 2004 until 2011.

Renee V. Schaaf, 61, has been President, Retirement and Income Solutions of the Company and Principal Life since March 2019. Prior to her current position, she served as Senior Vice President and Chief Operating Officer of Principal International of the Company and Principal Life since March 2016.

Amy C. Friedrich, 48, has been President of U.S. Insurance Solutions since May 2017. Prior to that time, she was Senior Vice President of the Specialty Benefits insurance division of U.S. Insurance Solutions since 2015, and Vice President of Specialty Benefits since 2008.

Patrick G. Halter, 60, has been Chief Executive Officer for Principal Global Investors, the investment management firm within our Global Asset Management business, since September 2018. Prior to that time, he served as Chief Operating Officer of Principal Global Investors, since 2016 and was Chief Executive Officer for Principal Real Estate Investors, the dedicated real estate unit of Principal Global Investors, since 2003.

Daniel J. Houston, 58, has been a director of the Company and Principal Life and President and Chief Executive Officer of the Company and Principal Life since August 2015. Prior to that date, he held the same positions except was Chief Operating Officer (and not Chief Executive Officer) since November 2014. Previously, he served as President, Retirement, Insurance and Financial Services of the Company and Principal Life since 2010. He was President, Retirement and Income Solutions of the Company and Principal Life from 2008 until 2010, and was Executive Vice President, Retirement and Income Solutions of the Company and Principal Life from 2006 to 2008.

Julia M. Lawler, 60, has been Executive Vice President of the Company and Principal Life since September 2018 and continues to serve as Chief Risk Officer. She was Senior Vice President and Chief Risk Officer of the Company and Principal Life since January 2018. Prior to that time, she served as Senior Executive Director Multi-Asset Allocation since 2015, was Chief Investment Officer of Retirement and Income Solutions since 2014, and previously served as Senior Vice President and Chief Investment Officer of the Company and Principal Life since 2002.

Chris J. Littlefield, 53, has been Executive Vice President and General Counsel of the Company and Principal Life since January 2020. Prior to that date, he was President and Chief Executive Officer of Fidelity & Guaranty Life Insurance Holdings from October 2014 to December 2018. Previously, he served as President and Chief Executive Officer of Aviva USA Corporation from February 2009 to October 2013 and served as Chief Operating Officer of Aviva USA Corporation from February 2008 to September 2009. Prior to that, he served as Executive Vice President, General Counsel and Secretary of AmerUS Group Co. from January 2006 to February 2008.

Gary P. Scholten, 62, has been Chief Digital Officer since May 2017 and Executive Vice President and Chief Information Officer of the Company and Principal Life since February 2014. Prior to that date, he was Senior Vice President and Chief Information Officer of the Company and Principal Life since 2002.

Karen E. Shaff, 65, has been Executive Vice President and Chief Legal Officer since January 2020. Prior to that date, she was Executive Vice President and General Counsel of the Company and Principal Life since 2004. In addition, she has served as Secretary of the Company and Principal Life since January 2014. Prior to that time, she was Senior Vice President and General Counsel of the Company since 2001, and Senior Vice President and General Counsel of Principal Life since 2000.

Deanna D. Strable-Soethout, 51, has been Executive Vice President and Chief Financial Officer of the Company and Principal Life since February 2017. Prior to that date, she was Executive Vice President of the Company and Principal Life since September 2016 and President, U.S. Insurance Solutions of the Company and Principal Life since March 2015. Prior to that, she served as Senior Vice President of the Company and Principal Life since 2006.

Luis E. Valdes, 62, has been the head of the Principal International segment of our operations since 2012, has been President, Principal International of the Company and Principal Life since 2011. Prior to his current position, he was Senior Vice President and President — PFG Latin America of the Company and Principal Life since 2010 and was Vice President — Principal International of Principal Life from 2000 until 2010.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock began trading on the New York Stock Exchange under the symbol "PFG" on October 23, 2001. Prior to such date, there was no established public trading market for our common stock. Effective December 15, 2017, we changed our listing to the Nasdaq Global Select Market and continue trading under the symbol "PFG". On January 31, 2020, there were 246,833 stockholders of record of our common stock.

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We have historically paid cash dividends on our common stock. Future dividend decisions will be based on and affected by a number of factors, including our results and financial requirements and the impact of regulatory restrictions. See Item 7. “Management's Discussion and Analysis of Financial Condition and Results of Operations — Liquidity and Capital Resources” for a discussion of regulatory restrictions on Principal Life's ability to pay dividends.

The following table presents the amount of our share purchase activity for the periods indicated:

Period	Total number of shares purchased (1)	Average price paid per share	Total number of shares purchased as part of publicly announced programs	Maximum dollar value of shares that may yet be purchased under the programs (in millions) (2)
January 1, 2019 - January 31, 2019	1,468,212	\$ 47.10	1,467,368	\$ 355.9
February 1, 2019 - February 28, 2019	1,671,267	\$ 50.39	1,224,506	\$ 295.3
March 1, 2019 - March 31, 2019	4,050	\$ 52.99	—	\$ 295.3
April 1, 2019 - April 30, 2019	1,070	\$ 57.38	—	\$ 295.3
May 1, 2019 - May 31, 2019	15	\$ 53.09	—	\$ 295.3
June 1, 2019 - June 30, 2019	—	\$ —	—	\$ 295.3
July 1, 2019 - July 31, 2019	1,903	\$ 59.70	—	\$ 295.3
August 1, 2019 - August 31, 2019	433,770	\$ 53.16	433,770	\$ 272.2
September 1, 2019 - September 30, 2019	387,940	\$ 53.31	387,299	\$ 251.6
October 1, 2019 - October 31, 2019	483,464	\$ 53.72	482,433	\$ 225.7
November 1, 2019 - November 30, 2019	569,876	\$ 54.22	569,782	\$ 194.8
December 1, 2019 - December 31, 2019	486,744	\$ 54.74	486,744	\$ 168.2
Total	5,508,311		5,051,902	

(1) Includes the number of shares of common stock utilized to execute certain stock incentive awards and shares purchased as part of a publicly announced program.

(2) In November 2018, our Board of Directors authorized a share repurchase program of up to \$500.0 million of our outstanding common stock, which has no expiration.

Item 6. Selected Financial Data

The following table sets forth certain selected historical consolidated financial information. We derived the consolidated financial information (except for amounts referred to as “Other Supplemental Data”) for each of the years ended December 31, 2019, 2018 and 2017 and as of December 31, 2019 and 2018 from our audited consolidated financial statements and notes to the financial statements included in this Form 10-K. We derived the consolidated financial information (except for amounts referred to as “Other Supplemental Data”) for the years ended December 31, 2016 and 2015 and as of December 31, 2017, 2016 and 2015 from our audited consolidated financial statements not included in this Form 10-K. The following summary of consolidated financial information (except for amounts referred to as “Other Supplemental Data”) has been prepared in accordance with U.S. GAAP.

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In order to fully understand our consolidated financial information, please also see Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our audited consolidated financial statements and the notes to the financial statements included in this Form 10-K. The results for past accounting periods are not necessarily indicative of the results to be expected for any future accounting period.

	As of or for the year ended December 31,				
	2019 (1)	2018 (1)	2017 (1)	2016	2015
<i>(\$ in millions, except per share data and as noted)</i>					
Income Statement Data:					
Revenue:					
Premiums and other considerations	\$ 7,866.6	\$ 6,409.6	\$ 6,217.4	\$ 5,299.1	\$ 5,310.3
Fees and other revenues	4,409.9	4,273.8	3,892.3	3,627.4	3,653.1
Net investment income	3,998.4	3,629.2	3,459.3	3,296.5	3,052.1
Net realized capital gains (losses)	(52.8)	(75.4)	524.2	171.1	(51.1)
Total revenues	<u>\$ 16,222.1</u>	<u>\$ 14,237.2</u>	<u>\$ 14,093.2</u>	<u>\$ 12,394.1</u>	<u>\$ 11,964.4</u>
Income from continuing operations, net of related income taxes	\$ 1,444.1	\$ 1,553.7	\$ 2,324.5	\$ 1,361.8	\$ 1,253.2
Net income	\$ 1,444.1	\$ 1,553.7	\$ 2,324.5	\$ 1,361.8	\$ 1,253.2
Earnings per Share Data:					
Income from continuing operations, net of related income taxes, per share:					
Basic	\$ 5.00	\$ 5.41	\$ 8.00	\$ 4.55	\$ 4.11
Diluted	\$ 4.96	\$ 5.36	\$ 7.88	\$ 4.50	\$ 4.06
Net income per share:					
Basic	\$ 5.00	\$ 5.41	\$ 8.00	\$ 4.55	\$ 4.11
Diluted	\$ 4.96	\$ 5.36	\$ 7.88	\$ 4.50	\$ 4.06
Dividends declared per common share	\$ 2.18	\$ 2.10	\$ 1.87	\$ 1.61	\$ 1.50
Balance Sheet Data:					
Total assets	\$ 276,087.8	\$ 243,036.1	\$ 253,941.2	\$ 228,014.3	\$ 218,660.3
Long-term debt	\$ 3,734.1	\$ 3,259.6	\$ 3,178.4	\$ 3,125.7	\$ 3,265.2
Total stockholders’ equity	\$ 14,685.8	\$ 11,456.0	\$ 12,921.9	\$ 10,293.8	\$ 9,377.4
Other Supplemental Data:					
AUM (\$ in billions)	\$ 735.3	\$ 626.8	\$ 668.6	\$ 591.6	\$ 527.4

(1) For a discussion of items materially affecting the comparability of 2019, 2018 and 2017, please see Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations — Transactions Affecting Comparability of Results of Operations.”

Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations

The following analysis discusses our financial condition as of December 31, 2019, compared with December 31, 2018, our consolidated results of operations for the years ended December 31, 2019, 2018 and 2017, and, where appropriate, factors that may affect our future financial performance. The discussion should be read in conjunction with our audited consolidated financial statements and the related notes to the financial statements and the other financial information included elsewhere in this Form 10-K.

Forward-Looking Information

Our narrative analysis below contains forward-looking statements intended to enhance the reader’s ability to assess our future financial performance. Forward-looking statements include, but are not limited to, statements that represent our beliefs concerning future operations, strategies, financial results or other developments, and contain words and phrases such as “anticipate,” “believe,” “plan,” “estimate,” “expect,” “intend,” and other similar expressions. Forward-looking statements are made based upon management’s current expectations and beliefs concerning future developments and their potential effects on us. Such forward-looking statements are not guarantees of future performance.

Actual results may differ materially from those included in the forward-looking statements as a result of risks and uncertainties. Those risks and uncertainties include, but are not limited to, the risk factors listed in Item 1A. “Risk Factors.”

Overview

We provide financial products and services through the following reportable segments:

- Retirement and Income Solutions;
- Principal Global Investors;
- Principal International and
- U.S. Insurance Solutions.

We also have a Corporate segment, which consists of the assets and activities that have not been allocated to any other segment. See Item 1. “Business” for a description of our reportable segments.

Effective January 1, 2019, we made changes to the allocation of certain compensation and other expenses and net investment income among the reportable segments. These allocation changes were made as a result of a global financial process improvement project. The expense allocation changes simplify the allocation processes, increase transparency and allow for more effective expense management across the enterprise. The net investment income allocation changes better align our internal capital allocation with enterprise capital targets. Segment results for prior periods were recast so they are reported on a comparable basis, with no impact to total company financial results.

Economic Factors and Trends

Positive market performance and net customer cash flow led to an increase in account values in our Retirement and Income Solutions segment in 2019. Account value is the base by which this business generates revenues. The increase in account values contributed to the overall improvement of fee revenues in this segment, in addition to the increase in fee revenues related to the Acquired Business.

Positive market performance led to an increase in AUM managed by our Principal Global Investors segment in 2019. AUM is the primary base by which this business generates revenues. Also included in revenues are borrower fees, transaction fees and performance fees which can fluctuate between years.

In our Principal International segment, we continued to grow our business organically in 2019 through our existing subsidiaries and joint ventures. Local currency AUM, a key indicator of earnings growth for the segment, increased in 2019 as a result of positive market performance and net customer cash flow. The financial results for the Principal International segment are also impacted by fluctuations of the foreign currency to U.S. dollar exchange rates for the locations in which we have business. AUM was negatively impacted by foreign currency fluctuations in 2019.

The U.S. Insurance Solutions segment has been impacted by lower interest rates in recent years, which has caused spread compression and led to higher reserves. We have mitigated some of the impact through changes in our investment strategy and changes to certain product offerings.

Profitability

Our profitability depends in large part upon our:

- amount of AUM;
- ability to manage the difference between the investment income we earn and the interest we credit to policyholders;
- ability to generate fee revenues by providing trust and custody, administrative and investment management services;
- ability to price our insurance products at a level that enables us to earn a margin over the cost of providing benefits and the related expenses;
- ability to manage our investment portfolio to maximize investment returns and minimize risks such as interest rate changes or defaults or impairments of invested assets;
- ability to effectively hedge fluctuations in foreign currency to U.S. dollar exchange rates on certain transactions and
- ability to manage our operating expenses.

Critical Accounting Policies and Estimates

The increasing complexity of the business environment and applicable authoritative accounting guidance requires us to closely monitor our accounting policies. Our significant accounting policies are described in Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 1, Nature of Operations and Significant Accounting Policies.” We have identified critical accounting policies that are complex and require significant judgment and estimates about matters that are inherently uncertain. A summary of our critical accounting policies is intended to enhance the reader’s ability to assess our financial condition and results of operations and the potential volatility due to changes in estimates and changes in guidance. The identification, selection and disclosure of critical accounting estimates and policies have been discussed with the Audit Committee of the Board of Directors.

Valuation and Impairment of Fixed Income Investments

Fixed Maturities. Fixed maturities include bonds, asset-backed securities (“ABS”), redeemable preferred stock and certain non-redeemable preferred securities. We classify our fixed maturities as either AFS or trading and, accordingly, carry them at fair value in the consolidated statements of financial position. Volatility in net income can result from changes in fair value of fixed maturities classified as trading. Volatility in other comprehensive income can result from changes in fair value of fixed maturities classified as AFS.

We measure the fair value of our financial assets and liabilities based on assumptions used by market participants in pricing the asset or liability, which may include inherent risk, restrictions on the sale or use of an asset, or nonperformance risk, including our own credit risk. For additional details concerning the methodologies, assumptions and inputs utilized see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements” under the caption, “Determination of Fair Value.”

The fair values of our public fixed maturities are primarily based on market prices from third party pricing vendors. We have regular interactions with these vendors to ensure we understand their pricing methodologies and to confirm they are utilizing observable market information. In addition, 7% of our invested asset portfolio as of December 31, 2019, was invested in privately placed fixed maturities with no readily available market quotes to determine the fair market value. The majority of these assets are valued using a matrix pricing valuation approach that utilizes observable market inputs. In the matrix approach, securities are grouped into pricing categories that vary by sector, rating and average life. Each pricing category is assigned a risk spread based on observable public market data. The expected cash flows of the security are then discounted back at the current Treasury curve plus the appropriate risk spread. Although the matrix valuation approach provides a fair valuation of each pricing category, the valuation of an individual security within each pricing category may be impacted by company specific factors. This excludes privately placed securities subject to Rule 144A of the Securities Act of 1933 that are primarily based on market prices from third party pricing vendors, similar to public fixed maturities.

If we are unable to price a fixed maturity security using prices from third party pricing vendors or other sources specific to the asset class, we may obtain a broker quote or utilize an internal pricing model specific to the asset utilizing relevant market information, to the extent available and where at least one significant unobservable input is utilized. These are reflected in Level 3 in the fair value hierarchy and can include fixed maturities across all asset classes. As of December 31, 2019, less than 1% of our total fixed maturities were Level 3 securities valued using internal pricing models. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements” for further discussion.

The \$4,175.6 million increase in net unrealized gains from U.S. investment operations for the year ended December 31, 2019, can be attributed to an approximate 74 basis point decrease in interest rates and tightening of credit spreads. For additional information about interest rate risk see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk.”

Fixed maturities classified as AFS are subject to impairment reviews. When evaluating fixed maturities for impairment, we consider relevant facts and circumstances in evaluating whether a credit or interest rate-related impairment of a security is other than temporary. Relevant facts and circumstances considered include: (1) the extent and length of time the fair value has been below cost; (2) the reasons for the decline in value; (3) the financial position and access to capital of the issuer, including the current and future impact of any specific events; (4) for structured securities, the adequacy of the expected cash flows and (5) our intent to sell a security or whether it is more likely than not we will be required to sell the security before recovery of its amortized cost which, in some cases, may extend to maturity. To the extent we determine a security is deemed to be other than temporarily impaired, an impairment loss is recognized. See item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments” under the caption, “Other-Than-Temporary Impairments” for further discussion.

A number of significant risks and uncertainties are inherent in the process of monitoring credit impairments and determining if an impairment is other than temporary. These risks and uncertainties include: (1) the risk that our assessment of an issuer's ability to meet all of its contractual obligations will change based on changes in the credit characteristics of that issuer; (2) the risk that the economic outlook will be worse than expected or have more of an impact on the issuer than anticipated; (3) the risk that our investment professionals are making decisions based on fraudulent or misstated information in the financial statements provided by issuers and (4) the risk that new information obtained by us or changes in other facts and circumstances lead us to change our intent to not sell the security prior to recovery of its amortized cost. Any of these situations could result in a charge to net income in a future period. As of December 31, 2019, we had \$8,525.0 million in AFS fixed maturities with gross unrealized losses totaling \$124.0 million. Included in the gross unrealized losses are losses attributable to both movements in market interest rates as well as movement in credit spreads.

Effective January 1, 2020, with the implementation of guidance for measurement of credit losses on financial instruments, a credit loss on fixed maturities classified as AFS will be recognized through an allowance for credit losses rather than a direct write-down for other than temporary impairment.

Mortgage Loans. Mortgage loans consist primarily of commercial mortgage loans on real estate. Commercial mortgage loans on real estate are generally reported at cost adjusted for amortization of premiums and accrual of discounts, computed using the interest method and net of valuation allowances. These loans are considered impaired when, based on current information and events, it is probable we will be unable to collect all amounts due according to contractual terms of the loan agreement. When we determine a loan is impaired, a valuation allowance is established equal to the difference between the carrying amount of the mortgage loan and the estimated value reduced by the cost to sell. Estimated value is based on either the present value of the expected future cash flows discounted at the loan's effective interest rate, the loan's observable market price or fair value of the collateral. Subsequent changes in the estimated value are reflected in the valuation allowance. Amounts on loans deemed to be uncollectible are charged off and removed from the valuation allowance. The change in the valuation allowance provision is included in net realized capital gains (losses) on our consolidated statements of operations. For more detailed information concerning mortgage loan valuation allowances and impairments, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments” under the caption, “Mortgage Loan Valuation Allowance.”

Effective January 1, 2020, with the implementation of guidance for measurement of credit losses on financial instruments, the mortgage loan valuation allowance will be based on the current expected credit loss model. This is not expected to have a material impact on the valuation allowance.

Derivatives

We use derivatives primarily to hedge or reduce exposure to market risks. The fair values of exchange-traded derivatives are determined through quoted market prices. Exchange-traded derivatives include futures that are settled daily, which reduces their fair value in the consolidated statements of financial position. The fair values of privately negotiated contracts, which are usually referred to as over-the-counter (“OTC”) derivatives, that are cleared through centralized clearinghouses are determined through market prices published by the clearinghouses. Beginning in 2017, variation margin associated with OTC cleared derivatives is settled daily, which reduces their fair value in the consolidated statements of financial position. The fair values of non-cleared OTC derivatives are determined using either pricing valuation models that utilize market observable inputs or broker quotes. On an absolute fair value basis as of December 31, 2019, 91% of our OTC derivative assets and liabilities were valued using pricing valuation models using market observable data and the remaining 9% using broker quotes. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements” for further discussion. The fair values of our derivative instruments can be impacted by changes in interest rates, foreign exchange rates, credit spreads, equity indices and volatility, as well as other contributing factors. For additional information see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk.”

We also issue certain annuity, universal life and other contracts that include embedded derivatives that have been bifurcated from the host contract. They are valued using a combination of historical data and actuarial judgment. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements” for further discussion. We include our assumption for own non-performance risk in the valuation of these embedded derivatives. As our credit spreads widen or tighten, the fair value of the embedded derivative liabilities decrease or increase, leading to an increase or decrease in net income. If the current market credit spreads reflecting our own creditworthiness move to zero (tighten), the reduction to net income would be approximately \$150.0 million, net of DAC and income taxes, based on December 31, 2019, reported amounts. In addition, the policyholder behavior assumptions used in the valuation of embedded derivatives include risk margins, which increase the fair value of the embedded derivative liabilities.

The accounting for derivatives is complex and interpretations of the applicable accounting standards continue to evolve. Judgment is applied in determining the availability and application of hedge accounting designations and the appropriate accounting treatment. Judgment and estimates are used to determine the fair value of some of our derivatives. Volatility in net income can result from changes in fair value of derivatives that do not qualify or are not designated for hedge accounting and changes in fair value of embedded derivatives.

Deferred Acquisition Costs and Other Actuarial Balances

Incremental direct costs of contract acquisition as well as certain costs directly related to acquisition activities (underwriting, policy issuance and processing, medical and inspection and sales force contract selling) for the successful acquisition of new and renewal insurance policies and investment contract business are capitalized to the extent recoverable. Maintenance costs and acquisition costs that are not deferrable are charged to net income as incurred.

Amortization Based on Estimated Gross Profits. DAC for universal life-type insurance contracts and certain investment contracts are amortized over the expected lifetime of the contracts in relation to estimated gross profits (“EGPs”). In addition to DAC, the following actuarial balances are also amortized in relation to EGPs.

- Sales inducement asset — Sales inducements are amounts that are credited to the contractholder’s account balance as an inducement to purchase the contract. Like DAC, the cost of the sales inducement is capitalized and amortized over the expected life of the contract, in proportion to EGPs.
- Unearned revenue liability — An unearned revenue liability is established when we collect fees or other policyholder assessments that represent compensation for services to be provided in future periods. These revenues are deferred and then amortized over the expected life of the contract, in proportion to EGPs.
- Reinsurance asset or liability — For universal-life type products that are reinsured, a reinsurance asset or liability is established to spread the expected net reinsurance costs or profits in proportion to the EGPs on the underlying business.

We also have additional benefit reserves that are established for annuity or universal life-type contracts that provide benefit guarantees or for contracts that are expected to produce profits followed by losses. The liabilities are accrued in relation to estimated contract assessments, and they are based on assumptions and methodologies similar to those used in the calculation of EGPs. For more information, see “Insurance Reserves .”

Key assumptions used in the calculation of EGPs include mortality, morbidity, lapses, equity returns, general account investment yields and expenses as well as the change in our liability for certain guarantees and the difference between actual and expected reinsurance premiums and recoveries, depending on the nature of the contract. Our general account investment yield assumption reflects our long-term projections of interest rates and net realized capital gains (losses). We develop an estimate of EGPs at issue and each valuation date. As actual experience and market conditions emerge, the gross profits may vary from those expected either in magnitude or timing, in which case a true-up of actuarial balances occurs as a charge or credit to current net income. In addition, we are required to revise our assumptions regarding future experience if actual experience or other evidence suggests that earlier estimates should be revised; we refer to this as unlocking. Both actions, reflecting actual experience and market conditions and changing future estimates, can change both the current amount and the future amortization pattern of the DAC asset and related actuarial balances.

For individual variable universal life insurance, individual variable annuities and group annuities that have separate account U.S. equity investment options, we utilize a mean reversion methodology (reversion to the mean assumption), a common industry practice, to determine the future domestic equity market growth rate assumption used for the calculation of EGPs. If actual annualized U.S. equity market performance varies from our 8% long-term assumption, we assume different performance levels in the short-term such that the weighted average return is equal to the long-term assumption over the mean reversion period. However, our mean reversion process generally limits assumed returns to a range of 4-12% during the mean reversion period. For additional details concerning methods of DAC amortization see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 1, Nature of Operations and Significant Accounting Policies” under the caption, “Deferred Acquisition Costs.”

Internal Replacements. We review policies for modifications that result in the exchange of an existing contract for a new contract. If the new contract is determined to be an internal replacement that is substantially changed from the replaced contract, any unamortized DAC and related actuarial balances are written off and acquisition costs related to the new contract are capitalized as appropriate. If the new contract is substantially unchanged from the replaced contract, we continue to amortize the existing DAC and related actuarial balances.

Recoverability. DAC and sales inducement assets are subject to recoverability testing at the time of policy issue and loss recognition testing on an annual basis, or when an event occurs that may warrant loss recognition. If loss recognition or impairment is necessary, the asset balances are written off to the extent it is determined that future policy premiums and investment income or gross profits are not adequate to cover the balances.

Actuarial Assumption Updates. We periodically review and update actuarial assumptions that are inputs to the models for DAC and other actuarial balances and make model refinements as necessary. For more information see “Transactions Affecting Comparability of Results of Operations — Other — Actuarial Assumption Updates .”

Sensitivities. As of December 31, 2019, the net balance of DAC and related actuarial balances, excluding balances affected by changes in other comprehensive income (“OCI”), was a \$527.0 million asset. We perform sensitivity analyses to assess the impact that certain assumptions have on these balances. The following table shows the estimated immediate impact of various assumption changes on our DAC and related actuarial balances.

	Estimated impact to net income (1)
	<i>(in millions)</i>
Reducing the future separate account equity return assumption by 1%	\$ (10)
Reducing the long-term general account fixed income investment yield assumption by 0.5%	(30)

(1) Reflects the net impact of changes to the DAC asset, sales inducement asset, unearned revenue liability, reinsurance asset or liability, additional benefit reserves and related taxes. Includes the impact on net income of changes in DAC and related actuarial balances for our equity method subsidiaries. The DAC and related actuarial balances of the equity method subsidiaries are not included in the total DAC balance listed above as they are not fully consolidated.

Goodwill and Other Intangible Assets

Goodwill and other intangible assets include the cost of acquired subsidiaries in excess of the fair value of the net tangible assets recorded in connection with acquisitions. Goodwill and intangible assets with indefinite lives are not amortized; however, are reviewed for impairment at least annually or more frequently if events or circumstances change that would more-likely-than-not reduce the fair value of a reporting unit below its carrying value using a discounted cash flow approach. Intangibles that do not have indefinite lives are amortized over their estimated useful lives. We formally conduct our annual goodwill and other intangible asset impairment testing during the third quarter. Goodwill is tested at the reporting unit level, which is the same level as or one level below the operating segment.

The operating segments and associated reporting units at which we perform our testing are as follows:

- Retirement and Income Solutions: Retirement and Income Solutions — Fee and Retirement and Income Solutions — Spread
- Principal Global Investors: Equity Investments, Fixed Income Investments, Real Estate and Other Alternative Investments, Mutual Funds Complex
- Principal International: Latin America and Asia
- U.S. Insurance Solutions: Specialty Benefits insurance and Individual Life insurance
- Corporate: Corporate subsidiaries

Goodwill. U.S. GAAP permits entities to first assess qualitative factors to determine whether it is more-likely-than-not that the fair value of a reporting unit is less than its carrying amount as a basis for determining whether it is necessary to perform the quantitative impairment test of the two-step goodwill impairment test. An entity also has an unconditional option to bypass the qualitative assessment in any period and proceed directly to performing the quantitative impairment test. We perform qualitative assessments for certain reporting units and we elect to proceed directly to a two-step quantitative test for certain reporting units in our evaluation of the carrying value of goodwill.

In the qualitative assessment, all relevant events and circumstances that could affect the significant inputs used to determine the fair value of the reporting unit are assessed. Each assessment uses a five-step approach: determine the starting point, identify the most relevant drivers of fair value, identify events and circumstances, weight the identified factors and conclude. For reporting units that performed a qualitative test, the estimated fair values of all such reporting units were in excess of their carrying values and, therefore, goodwill was not impaired.

For reporting units that performed a quantitative test, we concluded the estimated fair values of all such reporting units were in excess of their carrying values and, therefore, goodwill was not impaired.

Other Intangible Assets. U.S. GAAP permits entities to first assess qualitative factors to determine whether it is more-likely-than-not that the fair value of an intangible asset with an indefinite life is less than its carrying amount to determine whether it is necessary to perform a quantitative assessment. We primarily utilize the qualitative approach for testing of intangible assets with indefinite lives. In doing so, we follow the same qualitative process as for goodwill and weigh the evidence of the events and circumstances and their potential impacts on fair value when determining if it is not more-likely-than-not that the indefinite lived intangible is impaired. Intangible assets with finite lives are amortized as related benefits emerge and are reviewed periodically for indicators of impairment in value. If facts and circumstances suggest possible impairment, the sum of the estimated undiscounted future cash flows expected to result from the use of the asset is compared to the current carrying value of the asset. If the undiscounted future cash flows are less than the carrying value, an impairment loss is recognized for the excess of the carrying amount of assets over their fair value. For those assets amortized as related benefits emerge, the most significant assumptions involved in the estimation of future benefits include surrender/lapse rates and margins. We did not recognize a material impairment in our 2019 consolidated statement of operations.

Sensitivities. In connection with our annual impairment testing process, we performed a sensitivity analysis for goodwill impairment with respect to each of our reporting units and determined that a hypothetical 10% decline in the fair value would not result in an impairment of goodwill for any reporting unit. We cannot predict certain future events that might adversely affect the reported value of goodwill and other intangible assets that totaled \$1,693.8 million and \$1,786.7 million, respectively, as of December 31, 2019. Such events include, but are not limited to, strategic decisions made in response to economic and competitive conditions, the impact of the economic environment on our customer base, interest rate movements, declines in the equity markets, the legal environment in which the businesses operate or a material negative change in our relationships with significant customers. For further information see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 1, Nature of Operations and Significant Accounting Policies,” and “Note 2, Goodwill and Other Intangible Assets.”

Insurance Reserves

Reserves are liabilities representing estimates of the amounts that will come due, at some point in the future, to or on behalf of our policyholders. U.S. GAAP, allowing for some degree of managerial judgment, provides guidance for establishing reserves.

Future policy benefits and claims include reserves for individual traditional and group life insurance, disability, medical and long-term care insurance and individual and group annuities that provide periodic income payments. These reserves are computed using assumptions of mortality, morbidity, lapse, investment performance and expense. These assumptions are based on our experience, industry results, emerging trends and future expectations. For long-duration insurance contracts, once these assumptions are made for a given policy or group of policies, they will not be changed over the life of the policy. However, significant changes in experience or assumptions may require us to provide for expected future losses on a product by establishing premium deficiency reserves. Premium deficiency reserves may also be established for short-duration contracts to provide for expected future losses. Our reserve levels are reviewed throughout the year using internal analysis including, among other things, experience studies, claim development analysis and annual loss recognition analysis. To the extent experience indicates potential loss recognition, we recognize losses on certain lines of business. The ultimate accuracy of the assumptions on these long-tailed insurance products cannot be determined until the obligation of the entire block of business on which the assumptions were made is extinguished. Short-term variances of actual results from the assumptions used in the computation of the reserves are reflected in current period net income and can impact quarter-to-quarter net income.

Future policy benefits and claims also include reserves for incurred but unreported disability, medical, dental, vision, critical illness, accident and life insurance claims. We recognize claims costs in the period the service was provided to our policyholders. However, claims costs incurred in a particular period are not known with certainty until after we receive, process and pay the claims. We determine the amount of this liability using actuarial methods based on historical claim payment patterns as well as emerging cost trends, where applicable, to determine our estimate of claim liabilities. We also look back to assess how our prior periods' estimates developed. To the extent appropriate, changes in such development are recorded as a change to current period claim expense. Historically, the amount of the claim reserve adjustment made in subsequent reporting periods for prior period estimates have been within a reasonable range given our normal claim fluctuations.

Future policy benefits and claims also include benefit reserves that are established for annuity or universal life-type contracts that provide benefit guarantees, or for contracts that are expected to produce profits followed by losses. The liabilities are accrued in relation to estimated contract assessments.

We periodically review and update actuarial assumptions that are used to compute reserves. For more information see "Transactions Affecting Comparability of Results of Operations — Other — Actuarial Assumption Updates."

Benefit Plans

The reported expense and liability associated with pension and OPEB plans requires the use of assumptions. Numerous assumptions are made regarding the discount rate, expected long-term rate of return on plan assets, turnover, expected compensation increases, health care claim costs, health care cost trends, retirement rates and mortality. The discount rate and the expected return on plan assets have the most significant impact on the level of expense.

The assumed discount rate is determined by projecting future benefit payments inherent in the Projected Benefit Obligation and discounting those cash flows using a spot yield curve for high quality corporate bonds. Our assumed discount rates were 3.25% for our pension plans and 2.95% for our OPEB plans as of December 31, 2019. Typically, a 0.25% decrease in the discount rate would increase the pension benefits Projected Benefit Obligation and the Net Periodic Pension Cost ("NPPC") by approximately \$133.3 million and \$2.3 million, respectively. Typically, a 0.25% decrease in the discount rate would increase the OPEB accumulated postretirement benefit obligation by approximately \$2.2 million and would have a nominal impact on the Net Periodic Benefit Cost ("NPBC"). Typically, a 0.25% increase in the discount rate would result in decreases in benefit obligations and expenses at a level generally commensurate with those noted above.

The assumed long-term rate of return on plan assets is set at the long-term rate expected to be earned based on the long-term investment policy of the plans and the various classes of the invested funds. Historical and future expected returns of multiple asset classes were analyzed to develop a risk-free real rate of return and risk premiums for each asset class. The overall long-term rate for each asset class was developed by combining a long-term inflation component, the real risk-free rate of return and the associated risk premium. A weighted average rate was developed based on long-term returns for each asset class, the plan's target asset allocation policy and the tax structure of the trusts. For the 2019 NPPC and 2019 NPBC, a 5.95% and 5.19% weighted average long-term rate of return was used, respectively. For the 2020 NPPC and 2020 NPBC, a 5.60% and 4.94% weighted average long-term rate of return assumption, respectively, will be used. Typically, a 0.25% decrease in the assumed long-term rate of return would increase the NPPC by approximately \$7.0 million and the NPBC by approximately \$1.8 million. Typically, a 0.25% increase in this rate would result in a decrease to expense at the same levels. The assumed return on plan assets is based on the fair market value of plan assets as of December 31, 2019.

The compensation increase assumption is generally set at a rate consistent with current and expected long-term compensation and salary policy, including inflation.

For pension costs, actuarial gains and losses are amortized using a straight-line amortization method over the average remaining service period of employees, which is approximately 9 years. For OPEB costs, actuarial gains and losses are amortized using a straight-line amortization method over the average future lifetime, which is approximately 14 years. The qualified pension plan does not utilize the allowable corridor, while the nonqualified pension plan and OPEB plans utilize the 10% corridor. Prior service costs are amortized on a weighted average basis over approximately 8 years for pension costs and 8 years for OPEB costs. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 11, Employee and Agent Benefits” for further discussion.

Income Taxes

We provide for income taxes based on our estimate of the liability for taxes due. Our tax accounting represents management’s best estimate of various events and transactions, such as completion of tax audits or establishment of, or changes to, a valuation allowance associated with certain deferred tax assets, which could affect our estimates and effective income tax rate in a particular quarter or annual period. Deferred tax liabilities and assets are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates expected to be in effect during the years in which the basis differences reverse. We are required to evaluate the recoverability of our deferred tax assets each quarter and establish a valuation allowance, if necessary, to reduce our deferred tax assets to an amount that is more-likely-than-not to be realizable. In determining the need for a valuation allowance, we consider many factors, including future reversals of existing taxable temporary differences, future taxable income exclusive of reversing temporary differences and carryforwards, taxable income in prior carryback years and implementation of any feasible and prudent tax planning strategies management would employ to realize the tax benefit.

U.S. federal and state deferred income taxes have not been provided on approximately \$1,001.5 million of accumulated but undistributed earnings from operations of foreign subsidiaries as of December 31, 2019. We do not record U.S. federal and state deferred income taxes on foreign earnings not expected to be distributed to the U.S. We apply an exception to the general rule, which under U.S. GAAP otherwise requires the recording of U.S. deferred income taxes on the anticipated repatriation of foreign earnings as recognized for financial reporting purposes. The exception permits us to not record a U.S. deferred income tax liability on foreign earnings we expect to be indefinitely reinvested in our foreign operations. The related deferred income taxes will be recorded in the period it becomes apparent we can no longer positively assert some or all the undistributed earnings will remain invested into the foreseeable future.

Inherent in the provision for income taxes are estimates and our expectations regarding the deductibility of certain items, the timing of income and expense recognition, future performance and the current or future realization of operating losses, capital losses and certain tax credits. We regularly evaluate the capital needs of our domestic and foreign operations considering all available information, including operating and capital plans, regulatory capital requirements, parent company financing and cash flow needs, as well as tax laws applicable to our domestic and foreign subsidiaries. In the event these estimates differ from our prior estimates due to the receipt of new information, we may be required to significantly change the provision for income taxes recorded in the consolidated financial statements. Any such change could significantly affect the amounts reported in the consolidated financial statements in the year these estimates change. A significant decline in value of financial assets could lead to establishment of a valuation allowance on deferred tax assets having an adverse effect on current and future results. In management’s judgment, total deferred income tax assets are more-likely-than-not to be realized.

In addition, the amount of income taxes paid is subject to audits in the U.S. as well as various state and foreign jurisdictions. Tax benefits are recognized for book purposes when the more-likely-than-not threshold is met with regard to the validity of an uncertain tax position. Once this threshold is met, for each uncertain tax position we recognize in earnings the largest amount of benefit that is greater than 50% likely of being realized upon ultimate settlement with the Internal Revenue Service or other income taxing authorities for audits ongoing or not yet commenced.

We had \$195.3 million of current income tax receivables associated with outstanding audit issues reported as other assets in our consolidated statements of financial position as of December 31, 2019. We believe there are adequate defenses against, or sufficient provisions for, the contested issues, but final resolution of contested issues could take several years while legal remedies are pursued. Consequently, we do not anticipate the ultimate resolution of audits ongoing or not yet commenced to have a material impact on our net income.

The effects of tax legislation are recognized in the period of enactment. The effects of the U.S. tax reform were reflected in the 2017 financial statements as determined or as reasonably estimated provisional amounts based on available information subject to interpretation in accordance with the SEC’s Staff Accounting Bulletin No. 118 (“SAB 118”). SAB 118 provides guidance on accounting

for the effects of the U.S. tax reform where our determinations are incomplete but we are able to determine a reasonable estimate. A final determination is required to be made within a measurement period not to extend beyond one year from the enactment date of the U.S. tax reform. See Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes" for further discussion.

Transactions Affecting Comparability of Results of Operations

Acquisitions

Wells Fargo IRT Business. On July 1, 2019, we closed on our agreement with Wells Fargo Bank, N.A. to acquire its IRT business, which includes defined contribution, defined benefit, executive deferred compensation, employee stock ownership plans, institutional trust and custody, and institutional asset advisory businesses. The results of this acquisition are reflected in the Retirement and Income Solutions segment. The purchase price consisted of (i) \$1.2 billion cash paid at closing and (ii) an additional earn-out payment of up to \$150.0 million based upon the retention of fee revenue of the Acquired Business through December 31, 2020. The transaction was funded with available cash and debt financing. For additional information regarding the debt issuance, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 9, Debt."

RobustWealth. On July 2, 2018, we finalized the acquisition of RobustWealth, a financial technology company. The acquisition adds RobustWealth's digital capabilities to our industry knowledge, asset management experience and technology to help consumers meet their financial goals on an enhanced digital advice platform. The RobustWealth platform will retain its open architecture philosophy, and RobustWealth will continue to sell its platform to outside firms as part of its growth strategy. RobustWealth is consolidated within the Corporate segment due to its strategic benefits across the organization with the majority of goodwill allocated to the Principal Global Investors segment.

INTERNOS. On April 16, 2018, we finalized the acquisition of INTERNOS, a London-based European real estate investment manager. Upon acquisition, INTERNOS became Principal Real Estate Europe Limited and operates as our dedicated European real estate private equity focused investment team, expanding our global real estate capabilities. At the time of closing, the acquisition increased our AUM by \$3.5 billion. Principal Real Estate Europe Limited is reported within the Principal Global Investors segment.

MetLife Afore, S.A. de C.V. On February 20, 2018, we finalized the acquisition of MetLife Afore, S.A. de C.V., which was MetLife, Inc.'s pension fund management business in Mexico. At the time of closing, the acquisition increased our AUM by \$3.8 billion, making us the fifth largest AFORE in Mexico in terms of AUM. The results of this acquisition are reflected in the Principal International segment.

Other

Actuarial Assumption Updates. We periodically review and update actuarial assumptions that are inputs to the models for DAC and other actuarial balances and make model refinements as necessary. Assumption updates and model refinements were made resulting in an unlocking of DAC and other actuarial balances that increased (decreased) consolidated net income by \$(36.5) million, \$32.1 million and \$(26.6) million for the years ended December 31, 2019, 2018 and 2017, respectively.

The following table presents the increase (decrease) to pre-tax operating earnings for each segment.

	For the year ended December 31,		
	2019	2018	2017
	(in millions)		
Retirement and Income Solutions	\$ (34.3)	\$ 19.2	\$ (21.8)
Principal International	7.8	(53.5)	(11.8)
U.S. Insurance Solutions	(13.3)	(9.3)	(32.8)

The Individual Life insurance business actuarial assumption updates and model refinements affected several line items within our income statement. The following table presents the increase (decrease) to the Individual Life insurance income statement line items.

	For the year ended		
	December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Pre-tax operating earnings	\$ (33.8)	\$ (15.5)	\$ (47.0)
Fees and other revenues	100.2	(2.3)	14.2
Benefits, claims and settlement expenses	47.1	20.7	18.5
Dividends to policyholders	1.7	1.8	—
Operating expenses	85.2	(9.3)	42.7

Real Estate Realignment. Effective August 1, 2018, we agreed to a realignment of one of our real estate investment teams. With the realignment, we no longer manage \$9.2 billion of assets for a large real estate client but accelerated the recognition of a significant performance fee that was earned due to our successful management of the assets, which drove market value appreciation of the real estate investments. During the third quarter of 2018 we recognized, within the Principal Global Investors segment, \$253.1 million of fees and other revenue related to the performance fee. This was partially offset by \$151.9 million of operating expenses related to revenue sharing arrangements, resulting in a \$101.2 million increase to pre-tax operating earnings within the Principal Global Investors segment. Ongoing impacts to segment pre-tax operating earnings are not expected to be material.

CIMB Joint Ventures. On May 25, 2018, we and CIMB completed new ownership agreements in our joint ventures, PAM and PIAM. With the completion we increased our ownership stake to 60% with CIMB retaining 40% ownership and co-management of both PAM and PIAM. Our investment in both entities will continue to be reported using the equity method within the Principal International segment.

Tax Cuts and Jobs Act. The U.S. tax reform enacted on December 22, 2017, made broad and complex changes to the U.S. Internal Revenue Code applicable to us. The U.S. statutory tax rate was reduced from 35% to 21% effective January 1, 2018. Other provisions of the U.S. tax reform effective January 1, 2018, include, but are not limited to: 1) provisions reducing the dividends received deduction; 2) essentially eliminating U.S. federal income taxes on dividends from foreign subsidiaries; 3) retaining an element of current inclusion of certain earnings of controlled foreign corporations; 4) eliminating the corporate AMT and 5) changing how existing AMT credits will be realized. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes” for further details.

Real Estate Transactions. In an effort to adjust the concentration of our real estate holdings in Southern California, improve the liquidity of our real estate portfolio and gain control of certain properties that were jointly owned, we entered an exchange agreement to exit certain real estate joint ventures in September 2017. The transaction resulted in us transferring our interest in certain real estate properties in exchange for our joint venture partner’s interest in certain other real estate properties. In a subsequent transaction we sold certain of these real estate properties to a third party. Both transactions closed in September 2017.

We recognized a \$690.9 million net pre-tax realized capital gain (\$410.8 million net after-tax realized capital gain) for the year ended December 31, 2017, as a result of these transactions. For additional information related to these transactions, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments” under the caption, “Real Estate Transactions.”

Other Factors Affecting Comparability

Fluctuations in Foreign Currency to U.S. Dollar Exchange Rates

Fluctuations in foreign currency to U.S. dollar exchange rates for locations in which we have operations can affect reported financial results. In years when foreign currencies weaken against the U.S. dollar, translating foreign currencies into U.S. dollars results in fewer U.S. dollars to be reported. When foreign currencies strengthen, translating foreign currencies into U.S. dollars results in more U.S. dollars to be reported.

Foreign currency exchange rate fluctuations create variances in our financial statement line items. The most significant impact occurs within our Principal International segment where pre-tax operating earnings were negatively impacted \$24.2 million and \$11.8 million for the years ended December 31, 2019 and 2018, respectively, as a result of fluctuations in foreign currency to U.S. dollar exchange rates. This impact was calculated by comparing (a) the difference between current year results and prior year results to (b) the difference between current year results and prior year results translated using current year exchange rates for both periods. We use this approach to calculate the impact of exchange rates on all revenue and expense line items. For a discussion of our approaches to managing foreign currency exchange rate risk, see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk — Foreign Currency Risk.”

Effects of Inflation

The impact of inflation has not had a material effect on our annual consolidated results of operations over the past three years. However, we may be materially affected by inflation in the future.

Variable Investment Income

Variable investment income includes certain types of investment returns such as prepayment fees and income (loss) from certain elements of our other alternative asset classes, including results of value-add real estate sales activity. Due to its unpredictable nature, variable investment income may or may not be material to our financial results for a given reporting period and may create variances when comparing different reporting periods. For additional information, see “Investment Results.”

Recent Accounting Changes

For recent accounting changes, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 1, Nature of Operations and Significant Accounting Policies” under the caption, “Recent Accounting Pronouncements.”

Results of Operations

The following table presents summary consolidated financial information for the years indicated:

	For the year ended December 31,			Increase (decrease)	
	2019	2018	2017	2019 vs. 2018	2018 vs. 2017
	<i>(in millions)</i>				
Revenues:					
Premiums and other considerations	\$ 7,866.6	\$ 6,409.6	\$ 6,217.4	\$ 1,457.0	\$ 192.2
Fees and other revenues	4,409.9	4,273.8	3,892.3	136.1	381.5
Net investment income	3,998.4	3,629.2	3,459.3	369.2	169.9
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	(9.3)	(46.3)	606.0	37.0	(652.3)
Net other-than-temporary impairment (losses) recoveries on available-for-sale securities	(38.3)	10.6	(28.7)	(48.9)	39.3
Other-than-temporary impairment losses on fixed maturities available-for-sale reclassified from other comprehensive income	(5.2)	(39.7)	(53.1)	34.5	13.4
Net impairment losses on available-for-sale securities	(43.5)	(29.1)	(81.8)	(14.4)	52.7
Net realized capital gains (losses)	(52.8)	(75.4)	524.2	22.6	(599.6)
Total revenues	16,222.1	14,237.2	14,093.2	1,984.9	144.0
Expenses:					
Benefits, claims and settlement expenses	9,905.8	8,192.5	7,822.6	1,713.3	369.9
Dividends to policyholders	119.1	123.6	124.6	(4.5)	(1.0)
Operating expenses	4,503.9	4,136.7	3,893.8	367.2	242.9
Total expenses	14,528.8	12,452.8	11,841.0	2,076.0	611.8
Income before income taxes	1,693.3	1,784.4	2,252.2	(91.1)	(467.8)
Income taxes (benefits)	249.2	230.7	(72.3)	18.5	303.0
Net income	1,444.1	1,553.7	2,324.5	(109.6)	(770.8)
Net income attributable to noncontrolling interest	49.9	7.2	14.1	42.7	(6.9)
Net income attributable to Principal Financial Group, Inc.	\$ 1,394.2	\$ 1,546.5	\$ 2,310.4	\$ (152.3)	\$ (763.9)

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Net Income Attributable to Principal Financial Group, Inc.

Net income attributable to Principal Financial Group, Inc. decreased primarily due to a \$73.9 million favorable impact in 2018 related to the realignment of a real estate investment team and \$68.6 million related to actuarial assumption updates and model refinements that had an unfavorable impact in 2019 as compared to a favorable impact in 2018.

Total Revenues

Premiums increased \$1,226.8 million for the Retirement and Income Solutions segment primarily due to higher sales of single premium group annuities with life contingencies. The single premium group annuity product, which is typically used to fund defined benefit plan terminations, can generate large premiums from very few customers and therefore premiums tend to vary from period to period.

Fees and other revenues increased \$209.3 million for the Retirement and Income Solutions segment primarily due to the Acquired Business. Fees and other revenues increased for the U.S. Insurance Solutions segment primarily due to \$102.5 million related to a favorable impact from actuarial assumption updates and model refinements in 2019 as compared to an unfavorable impact in 2018 and \$62.4 million resulting from growth in the business. Fees and other revenues decreased \$235.7 million for the Principal Global Investors segment primarily due to the accelerated recognition of performance fees in 2018 from the realignment of a real estate investment team.

Net investment income increased primarily due to \$177.3 million attributable to higher average invested assets and a \$55.5 million increase in variable investment income in our U.S. operations. Net investment income increased \$66.8 million due to favorable relative market performance on our required regulatory investments in our Latin America business. For additional information, see “Investments — Investment Results – Net Investment Income.”

Net realized capital gains (losses) can be volatile due to other-than-temporary impairments of invested assets, mark-to-market adjustments of certain invested assets and our decision to sell invested assets. For additional information, see “Investments — Investment Results — Net Realized Capital Gains (Losses).”

Total Expenses

Benefits, claims and settlement expenses increased \$1,428.8 million for the Retirement and Income Solutions segment primarily due to a larger increase in reserves, stemming from higher sales of single premium group annuities with life contingencies.

Operating expenses increased \$226.1 million for the Retirement and Income Solutions segment primarily due to the Acquired Business. Operating expenses increased for the U.S. Insurance Solutions segment primarily due to \$69.5 million related to an unfavorable impact from actuarial assumption updates and model refinements in 2019 as compared to a favorable impact in 2018 and \$67.2 million resulting from growth in the business. Operating expenses increased for the Corporate segment largely due to a \$26.5 million increase related to interest and penalty abatements received related to tax settlements recorded in 2018, a \$24.1 million increase in pension and OPEB expenses, a \$23.8 million increase in strategic initiatives and a \$16.0 million increase related to RobustWealth, which we acquired in third quarter 2018. Operating expenses decreased \$139.5 million for the Principal Global Investors segment primarily due to the 2018 expenses associated with the realignment of a real estate investment team.

Income Taxes

The effective income tax rates were 15% and 13% for the years ended December 31, 2019 and 2018, respectively. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes” under the caption, “Effective Income Tax Rate” for further discussion.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Net Income Attributable to Principal Financial Group, Inc.

Net income attributable to Principal Financial Group, Inc. decreased primarily due to a \$568.3 million U.S. tax reform net benefit in 2017 and a \$410.8 million after-tax net realized capital gain resulting from real estate transactions in 2017. These decreases were partially offset by an \$86.4 million decrease in losses on derivatives not designated as hedging instruments.

Total Revenues

Premiums increased \$128.2 million for the U.S. Insurance Solutions segment primarily due to growth in the business. Premiums increased \$99.2 million for the Principal International segment primarily due to higher sales of single premium annuities with life contingencies in Chile.

Fees and other revenues increased \$296.7 million for the Principal Global Investors segment primarily due to the accelerated recognition of performance fees in 2018 from the realignment of a real estate investment team.

Net investment income increased primarily due to higher average invested assets in our U.S. operations. For additional information, see “Investments — Investment Results — Net Investment Income.”

Net realized capital gains (losses) can be volatile due to other-than-temporary impairments of invested assets, mark-to-market adjustments of certain invested assets and our decision to sell invested assets. We had net realized capital losses in 2018 as compared to net realized capital gains in 2017 primarily due to \$690.9 million in net gains resulting from real estate transactions in 2017. This was partially offset by a \$141.5 million decrease in losses on derivatives not designated as hedging instruments. For additional information, see “Investments — Investment Results — Net Realized Capital Gains (Losses).”

Total Expenses

Benefits, claims and settlement expenses increased for the Principal International segment primarily in Latin America due to \$97.9 million higher sales of single premium annuities with life contingencies in Chile and \$47.7 million higher reserves related to higher inflation-based interest crediting rates to customers. Benefits, claims and settlement expenses increased \$126.4 million for the Retirement and Income Solutions segment primarily due to an increase in reserves resulting from higher sales of single premium individual annuities with life contingencies. Benefits, claims and settlement expenses increased \$99.3 million for the U.S. Insurance Solutions segment primarily due to growth in the business.

Operating expenses increased \$202.2 million for the Principal Global Investors segment primarily due to the 2018 expenses associated with the realignment of a real estate investment team.

Income Taxes

The effective income tax rates were 13% and (3)% for the years ended December 31, 2018 and 2017, respectively. The effective income tax rate increased to 13% for the year ended December 31, 2018, from (3)% for the year ended December 31, 2017, primarily due to the impact of the U.S. tax reform relative to changes in income before income taxes. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes” under the caption, “Effective Income Tax Rate” for further discussion.

Results of Operations by Segment

For results of operations by segment see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 16, Segment Information.”

Retirement and Income Solutions Segment

Retirement and Income Solutions Trends

Several key factors impact revenue and earnings growth in the Retirement and Income Solutions segment. These factors include: the ability of our distribution channels to generate new sales and retain existing business; pricing decisions that take account of competitive conditions, persistency, investment returns, mortality trends, and operating expense levels; investment management performance; equity market returns and interest rate changes. Profitability ultimately depends on our ability to price products and invest assets at a level that enables us to earn a margin over the cost of providing benefits and the expense of acquiring and administering those products.

Net revenue is a key metric used to understand Retirement and Income Solutions earnings growth. Net revenue is defined as operating revenues less benefits, claims and settlement expenses less dividends to policyholders. Net revenue from Retirement and Income Solutions – Fee is largely fee based and is impacted by changes in the equity markets and interest rates. Net revenue from Retirement and Income Solutions – Spread is primarily driven by the difference between investment income earned on the underlying general account assets and the interest rate credited to the contracts.

The following table presents the Retirement and Income Solutions segment net revenue for the years indicated:

	For the year ended			Increase (decrease)	
	December 31,			2019 vs. 2018	2018 vs. 2017
	2019	2018	2017		
	<i>(in millions)</i>				
Retirement and Income Solutions — Fee (1)	\$ 1,753.5	\$ 1,573.8	\$ 1,549.7	\$ 179.7	\$ 24.1
Retirement and Income Solutions — Spread	617.0	587.7	577.9	29.3	9.8
Total Retirement and Income Solutions	\$ 2,370.5	\$ 2,161.5	\$ 2,127.6	\$ 209.0	\$ 33.9

(1) Includes \$205.9 million of Acquired Business net revenue in 2019.

Retirement and Income Solutions Segment Summary Financial Data

The following table presents certain summary financial data relating to the Retirement and Income Solutions segment for the years indicated:

	For the year ended			Increase (decrease)	
	December 31,			2019 vs. 2018	2018 vs. 2017
	2019	2018	2017		
	<i>(in millions)</i>				
Operating revenues:					
Premiums and other considerations	\$ 4,862.7	\$ 3,635.9	\$ 3,671.1	\$ 1,226.8	\$ (35.2)
Fees and other revenues	1,617.7	1,408.3	1,394.4	209.4	13.9
Net investment income	2,474.0	2,232.8	2,089.2	241.2	143.6
Total operating revenues	8,954.4	7,277.0	7,154.7	1,677.4	122.3
Expenses:					
Benefits, claims and settlement expenses, including dividends to policyholders	6,583.9	5,115.5	5,027.1	1,468.4	88.4
Operating expenses	1,496.5	1,239.3	1,189.1	257.2	50.2
Total expenses	8,080.4	6,354.8	6,216.2	1,725.6	138.6
Pre-tax operating earnings	\$ 874.0	\$ 922.2	\$ 938.5	\$ (48.2)	\$ (16.3)

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Pre-Tax Operating Earnings

Pre-tax operating earnings decreased in our Fee business primarily due to a \$43.2 million impact associated with actuarial assumption updates and model refinements, which were unfavorable in 2019 compared to favorable in 2018, and a \$27.9 million pre-tax loss primarily related to integration expenses for the Acquired Business. These decreases in pre-tax operating earnings were partially offset by a \$30.5 million decrease in DAC amortization due to favorable equity markets in 2019 compared to unfavorable in 2018. Pre-tax operating earnings decreased in our Spread business primarily due to a \$19.6 million impact associated with unfavorable experience and a \$10.3 million impact associated with actuarial assumption updates and model refinements, which were less favorable in 2019 compared to 2018. These decreases were partially offset by a \$27.3 million increase in variable investment income.

Net Revenue

Net revenue increased in our Fee business primarily due to a \$205.9 million increase related to the Acquired Business. Net revenue increased in our Spread business primarily due to a \$27.3 million increase in variable investment income.

Operating Expenses

Operating expenses increased in our Fee business due to a \$233.8 million increase related to the Acquired Business partially offset by a \$30.5 million decrease in DAC amortization due to favorable equity markets in 2019 compared to unfavorable in 2018. Operating expenses increased in our Spread business primarily due to a \$22.9 million increase resulting from investments to support our business and a \$12.0 million impact associated with actuarial assumption updates and model refinements, which were less favorable in 2019 compared to 2018.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Pre-Tax Operating Earnings

Pre-tax operating earnings decreased in our Fee business primarily due to a \$24.3 million increase in DAC amortization stemming from unfavorable equity market performance in 2018 compared to favorable equity market performance in 2017, a \$17.1 million increase in expenses to support our businesses, an \$11.5 million increase in staff related costs, including pension and other postretirement benefits, and a \$6.2 million decrease in variable investment income. These decreases to pre-tax operating earnings were offset by a \$48.7 million impact associated with actuarial assumption updates and model refinements, which were favorable in 2018 compared to unfavorable in 2017. Pre-tax operating earnings decreased in our Spread business primarily due to a \$7.7 million less favorable impact associated with actuarial assumption updates and model refinements in 2018 compared to 2017.

Net Revenue

Net revenue increased in our Fee business primarily due to a \$33.7 million less unfavorable impact associated with actuarial assumption updates and model refinements in 2018 compared to 2017. The increase was slightly offset by a \$6.2 million decrease in variable investment income.

Operating Expenses

Operating expenses increased in our Fee business due to a \$24.3 million increase in DAC amortization stemming from unfavorable equity market performance in 2018 compared to favorable equity market performance in 2017, a \$17.1 million increase in expenses to support our businesses and an \$11.5 million increase in staff related costs, including pension and other postretirement benefits. These increases were partially offset by a \$22.0 million decrease in commission expense relating to changes in commission arrangements with advisors. Operating expenses increased in our Spread business primarily due to a \$7.1 million increase in expenses to support our businesses and a \$3.4 million increase in sales compensation due to growth in our single premium individual annuities block of business.

Principal Global Investors Segment

Principal Global Investors Trends

Our overall AUM increased \$65.1 billion in 2019 driven by positive market returns. We continue to expand our global presence and believe we are well positioned to capture changing market conditions and client needs.

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The following table provides a summary of AUM managed by Principal Global Investors by the business area that sourced or generated the AUM. Principal Global Investors sourced represents institutional and fund platform AUM sourced by Principal Global Investors' distribution teams. General account represents general account assets of domestic insurance companies and other balance sheet assets. Other affiliated sources represents AUM sourced by other PFG businesses (e.g., separate account assets).

	For the year ended December 31,		
	2019	2018	2017
	<i>(in billions)</i>		
Principal Global Investors sourced	\$ 222.6	\$ 189.2	\$ 219.2
General account	91.2	79.8	76.4
Other affiliated sources	144.8	124.5	135.3
Total AUM	<u>\$ 458.6</u>	<u>\$ 393.5</u>	<u>\$ 430.9</u>

Principal Global Investors Segment Summary Financial Data

AUM is the base by which we generate management fee revenues. Market performance and net cash flow are the two main drivers of AUM growth. Market performance reflects equity, fixed income, real estate and other alternative investment performance. Net cash flow reflects client deposits and withdrawals. The fee levels on these client deposits and withdrawals are increasingly becoming the more important factor to revenue growth and will vary widely based on business and/or product mix.

The following table presents the AUM rollforward for assets managed by Principal Global Investors for the periods indicated:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in billions)</i>		
AUM, beginning of period	\$ 393.5	\$ 430.9	\$ 390.5
Net cash flow (1)	1.1	(15.2)	(2.7)
Investment performance	62.9	(13.7)	43.1
Operations acquired (2)	—	3.5	—
Operations disposed (3)	(0.2)	(11.0)	—
Other (4)	1.3	(1.0)	—
AUM, end of period	<u>\$ 458.6</u>	<u>\$ 393.5</u>	<u>\$ 430.9</u>

- (1) Similar to the asset management industry, we experienced elevated withdrawals in 2018 primarily due to increased demand for lower cost options, higher interest rates, volatility in capital markets and tax-related redemption activity.
- (2) Reflects assets managed by Principal Global Investors resulting from the acquisition of INTERNOS in April 2018.
- (3) Reflects outflows for 2018 of \$9.2 billion related to the realignment of a real estate investment management team and \$1.8 billion related to a decision to exit the actively managed currency market.
- (4) Primarily reflects the 2019 movement of Claritas, our investment management company in Brazil, from the Principal International segment to the Principal Global Investors segment.

The following table presents certain summary financial data relating to the Principal Global Investors segment for the years indicated:

	For the year ended December 31,			Increase (decrease)	
	2019	2018	2017	2019 vs. 2018	2018 vs. 2017
	<i>(in millions)</i>				
Operating revenues:					
Fees and other revenues	\$ 1,495.2	\$ 1,730.9	\$ 1,434.2	\$ (235.7)	\$ 296.7
Net investment income	10.6	5.4	10.2	5.2	(4.8)
Total operating revenues	1,505.8	1,736.3	1,444.4	(230.5)	291.9
Total expenses	1,016.5	1,168.5	957.4	(152.0)	211.1
Pre-tax operating earnings attributable to noncontrolling interest	6.0	5.7	5.7	0.3	—
Pre-tax operating earnings	<u>\$ 483.3</u>	<u>\$ 562.1</u>	<u>\$ 481.3</u>	<u>\$ (78.8)</u>	<u>\$ 80.8</u>

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Pre-Tax Operating Earnings

Pre-tax operating earnings decreased primarily due to the \$101.2 million net impact of the 2018 realignment of a real estate investment management team. The realignment resulted in a \$253.1 million accelerated performance fee that was partially offset by \$151.9 million in operating expenses.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Pre-Tax Operating Earnings

Pre-tax operating earnings increased primarily due to the \$101.2 million net impact of the 2018 realignment of a real estate investment management team. The realignment resulted in a \$253.1 million accelerated performance fee that was partially offset by \$151.9 million in operating expenses.

Principal International Segment

Principal International Trends

Our Principal International businesses focus on locations with growing middle classes, favorable demographics and increasing long-term savings, ideally with voluntary or mandatory pension markets. With variations depending upon the specific location, we have targeted these markets for sales of retirement and related products and services, including mutual funds, asset management, income annuities and life insurance accumulation products to businesses and individuals.

We have pursued our international strategy through a combination of acquisitions, start-up operations and joint ventures, which require infusions of capital consistent with our strategy of long-term growth and profitability.

Principal International Segment Summary Financial Data

AUM is generally a key indicator of earnings growth for the segment, as AUM is the base by which we can generate local currency profits. The Cuprum business in Chile differs in that the majority of fees are collected with each deposit by the mandatory retirement customers, based on a capped salary level, as opposed to asset levels. Net customer cash flow and market performance are the two main drivers of local currency AUM growth. Net customer cash flow reflects our ability to attract and retain client deposits. Market performance reflects the investment returns on our underlying AUM. Our financial results are also impacted by fluctuations of the foreign currency to U.S. dollar exchange rates for the locations in which we have business. AUM of our foreign subsidiaries is translated into U.S. dollar equivalents at the end of the reporting period using the spot foreign exchange rates. Revenue and expenses for our foreign subsidiaries are translated into U.S. dollar equivalents at the average foreign exchange rates for the reporting period.

The following table presents the Principal International segment AUM rollforward for the years indicated:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in billions)</i>		
AUM, beginning of period	\$ 155.5	\$ 160.7	\$ 137.1
Net cash flow	4.2	5.1	6.3
Investment performance	16.7	4.0	13.3
Operations acquired (1)	—	3.8	—
Operations disposed (2)	—	(0.2)	—
Effect of exchange rates	(5.2)	(17.4)	4.3
Other (3)	(1.5)	(0.5)	(0.3)
AUM, end of period	<u>\$ 169.7</u>	<u>\$ 155.5</u>	<u>\$ 160.7</u>

(1) Reflects the February 2018 acquisition of MetLife, Inc.'s pension fund management business in Mexico.

(2) Reflects the December 2018 disposition of a closed block of business in Mexico.

(3) Primarily reflects the January 2019 movement of Claritas, our investment management company in Brazil, from the Principal International segment to the Principal Global Investors segment.

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Net revenue is a key metric used to understand the earnings growth for the Principal International segment. The following table presents the net revenue of the Principal International segment for the years indicated.

	For the year ended			Increase (decrease)	
	December 31,			2019 vs. 2018	2018 vs. 2017
	2019	2018	2017		
	<i>(in millions)</i>				
Net revenue	\$ 831.7	\$ 728.2	\$ 760.1	\$ 103.5	\$ (31.9)

The following table presents certain summary financial data relating to the Principal International segment for the years indicated:

	For the year ended			Increase (decrease)	
	December 31,			2019 vs. 2018	2018 vs. 2017
	2019	2018	2017		
	<i>(in millions)</i>				
Operating revenues:					
Premiums and other considerations	\$ 393.3	\$ 317.2	\$ 218.0	\$ 76.1	\$ 99.2
Fees and other revenues	468.5	484.4	433.5	(15.9)	50.9
Net investment income	661.4	571.3	600.0	90.1	(28.7)
Total operating revenues	1,523.2	1,372.9	1,251.5	150.3	121.4
Expenses:					
Benefits, claims and settlement expenses	691.5	644.7	491.4	46.8	153.3
Operating expenses	437.3	452.3	410.0	(15.0)	42.3
Total expenses	1,128.8	1,097.0	901.4	31.8	195.6
Pre-tax operating earnings attributable to noncontrolling interest	3.7	3.3	3.9	0.4	(0.6)
Pre-tax operating earnings	\$ 390.7	\$ 272.6	\$ 346.2	\$ 118.1	\$ (73.6)

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Pre-Tax Operating Earnings

Pre-tax operating earnings increased \$126.0 million in Latin America primarily due to \$66.5 million favorable market performance on our required regulatory investments in addition to a \$61.3 million impact associated with actuarial assumption updates and model refinements in Brazil, which were favorable in 2019 compared to unfavorable in 2018. These increases were partially offset by \$21.2 million of foreign currency headwinds.

Net Revenue

Net revenue increased \$102.9 million in Latin America due to \$67.6 million favorable market performance on our required regulatory investments as well as a \$61.3 million impact associated with actuarial assumption updates and model refinements in Brazil, which were favorable in 2019 compared to unfavorable in 2018. These increases were partially offset by \$37.6 million of foreign currency headwinds.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Pre-Tax Operating Earnings

Pre-tax operating earnings decreased \$93.8 million in Latin America primarily due to the impacts of the third quarter actuarial assumption updates and model refinements in Brazil, which resulted in a \$41.7 million decrease in pre-tax operating earnings relative to the year earlier period, \$32.1 million of unfavorable relative market performance on our required regulatory investments and \$13.9 million of foreign currency headwinds. This was partially offset by an increase in Asia's pre-tax operating earnings of \$24.7 million due to continued growth in the business.

Net Revenue

Net revenue decreased \$53.8 million in Latin America primarily due to the impacts of the third quarter actuarial assumption updates and model refinements in Brazil, which resulted in a \$41.7 million decrease in net revenue relative to the year earlier period, and \$31.0 million of unfavorable relative market performance on our required regulatory investments. This was partially offset by a \$21.3 million increase in Asia's net revenue due to continued growth in the business.

U.S. Insurance Solutions Segment

U.S. Insurance Solutions Segment Summary Financial Data

Premium and fees are a key metric for growth in the U.S. Insurance Solutions segment. We receive premiums on our specialty benefits insurance products as well as our traditional life insurance products. Fees are generated from our specialty benefits fee-for-service products as well as our universal life, variable universal life and indexed universal life insurance products. We use several reinsurance programs to help manage the mortality and morbidity risk. Premium and fees are reported net of reinsurance premiums.

In our Specialty Benefits insurance business, premium and fees growth is a result of strong retention, sales and in-group growth. In our Individual Life insurance business, premium and fees growth is driven by recurring premiums and sales with a focus on maintaining a balanced product portfolio.

The following table presents the U.S. Insurance Solutions segment premium and fees for the years indicated:

	For the year ended December 31,			Increase (decrease)	
	2019	2018	2017	2019 vs. 2018	2018 vs. 2017
	<i>(in millions)</i>				
Specialty Benefits insurance	\$ 2,327.2	\$ 2,169.5	\$ 2,021.1	\$ 157.7	\$ 148.4
Individual Life insurance	1,245.0	1,091.8	1,082.3	153.2	9.5

The following table presents certain summary financial data relating to the U.S. Insurance Solutions segment for the years indicated:

	For the year ended December 31,			Increase (decrease)	
	2019	2018	2017	2019 vs. 2018	2018 vs. 2017
	<i>(in millions)</i>				
Operating revenues:					
Premiums and other considerations	\$ 2,610.6	\$ 2,456.5	\$ 2,328.3	\$ 154.1	\$ 128.2
Fees and other revenues (1)	961.4	804.6	774.9	156.8	29.7
Net investment income	877.0	828.7	810.3	48.3	18.4
Total operating revenues	4,449.0	4,089.8	3,913.5	359.2	176.3
Expenses:					
Benefits, claims and settlement expenses (1)	2,625.3	2,446.0	2,346.3	179.3	99.7
Dividends to policyholders (1)	118.6	123.4	124.4	(4.8)	(1.0)
Operating expenses (1)	1,183.5	1,053.4	1,030.0	130.1	23.4
Total expenses	3,927.4	3,622.8	3,500.7	304.6	122.1
Pre-tax operating earnings (1)	\$ 521.6	\$ 467.0	\$ 412.8	\$ 54.6	\$ 54.2

(1) For further details related to the impact associated with actuarial assumption updates and model refinements on results for 2019, 2018, and 2017, see "Transactions Affecting Comparability of Results of Operations — Other — Actuarial Assumption Updates."

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Pre-Tax Operating Earnings

Pre-tax operating earnings increased in our Specialty Benefits insurance business primarily due to \$23.5 million of more favorable claims experience, \$20.2 million resulting from growth in the business and \$14.3 million related to a more favorable impact from actuarial assumption updates and model refinements in 2019 as compared to 2018. Pre-tax operating earnings decreased in our Individual Life insurance business primarily due to \$18.3 million related to a more unfavorable impact from actuarial assumption updates and model refinements in 2019 as compared to 2018, partially offset by \$9.1 million resulting from growth in the business.

Operating Revenues

Premium and fees increased \$157.7 million in our Specialty Benefits insurance business primarily due to growth in the business. Premium and fees increased in our Individual Life insurance business primarily due to \$102.5 million related to a favorable impact from actuarial assumption updates and model refinements in 2019 as compared to an unfavorable impact in 2018 and \$50.7 million resulting from growth in the business.

Net investment income increased \$89.0 million due to higher average invested assets, partially offset by \$52.5 million of lower investment yields.

Total Expenses

Benefits, claims and settlement expenses increased primarily due to \$133.3 million resulting from growth in the business and \$38.8 million related to a more unfavorable impact from actuarial assumption updates and model refinements in 2019 as compared to 2018.

Operating expenses increased in our Specialty Benefits insurance business primarily due to \$51.0 million resulting from growth in the business. This increase was partially offset by \$25.0 million related to a favorable impact from actuarial assumption updates and model refinements in 2019 as compared to an unfavorable impact in 2018. Operating expenses increased \$113.3 million in our Individual Life insurance business primarily due to an unfavorable impact from actuarial assumption updates and model refinements in 2019 as compared to a favorable impact in 2018.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Pre-Tax Operating Earnings

Pre-tax operating earnings increased \$32.6 million in our Specialty Benefits insurance business primarily due to more favorable claims experience. Pre-tax operating earnings increased \$21.6 million in our Individual Life insurance business primarily due to a less unfavorable impact associated with actuarial assumption updates and model refinements in 2018 as compared to 2017.

Operating Revenues

Premium and fees increased primarily due to growth in the business.

Total Expenses

Benefits, claims and settlement expenses increased primarily due to \$114.3 million related to growth in the business, partially offset by \$40.1 million of favorable claims experience in our Specialty Benefits insurance business.

Operating expenses increased \$65.9 million in our Specialty Benefits insurance business primarily due to growth in the business. Operating expenses decreased \$42.5 million in our Individual Life insurance business primarily due to a favorable impact associated with actuarial assumption updates and model refinements in 2018 as compared to an unfavorable impact in 2017.

Corporate Segment

Corporate Segment Summary Financial Data

The following table presents certain summary financial data relating to the Corporate segment for the years indicated:

	For the year ended			Increase (decrease)	
	December 31,			2019 vs. 2018	2018 vs. 2017
	2019	2018	2017		
	<i>(in millions)</i>				
Total operating revenues	\$ (39.3)	\$ (51.2)	\$ (60.8)	\$ 11.9	\$ 9.6
Total expenses	333.3	215.6	243.4	117.7	(27.8)
Pre-tax operating earnings attributable to noncontrolling interest	7.7	2.6	0.9	5.1	1.7
Pre-tax operating losses	<u>\$ (380.3)</u>	<u>\$ (269.4)</u>	<u>\$ (305.1)</u>	<u>\$ (110.9)</u>	<u>\$ 35.7</u>

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Pre-Tax Operating Losses

Pre-tax operating losses increased primarily due to operating expense increases, including a \$26.5 million increase related to interest and penalty abatements received related to tax settlements recorded in 2018, a \$24.1 million increase in pension and OPEB expenses, a \$23.8 million increase in strategic initiatives and a \$16.0 million increase related to RobustWealth, which we acquired in third quarter 2018.

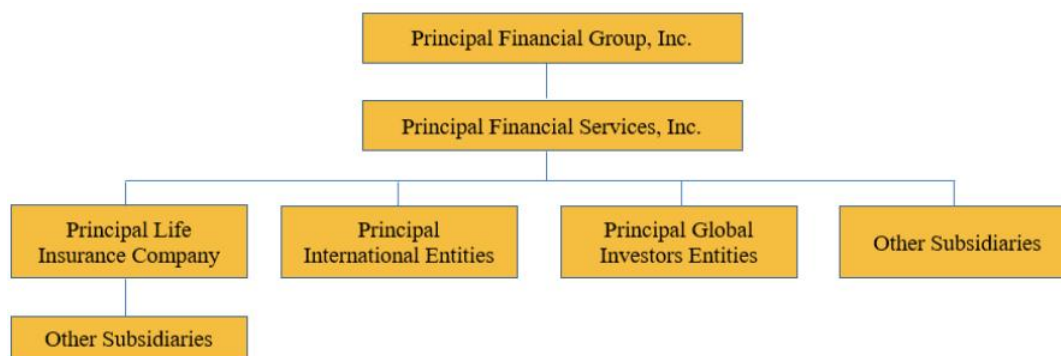
Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Pre-Tax Operating Losses

Pre-tax operating losses decreased primarily due to interest and penalty abatements received related to tax settlements recorded in 2018.

Liquidity and Capital Resources

Liquidity and capital resources represent the overall strength of a company and its ability to generate strong cash flows, borrow funds at a competitive rate and raise new capital to meet operating and growth needs. Our legal entity structure has an impact on our ability to meet cash flow needs as an organization. Following is a simplified organizational structure.



Liquidity

Our liquidity requirements have been and will continue to be met by funds from consolidated operations as well as the issuance of commercial paper, common stock, debt or other capital securities and borrowings from credit facilities. We believe the cash flows from these sources are sufficient to satisfy the current liquidity requirements of our operations, including reasonably foreseeable contingencies.

We maintain a level of cash and securities which, combined with expected cash inflows from investments and operations, we believe to be adequate to meet anticipated short-term and long-term payment obligations. We will continue our prudent capital management practice of regularly exploring options available to us to maximize capital flexibility, including accessing the capital markets and careful attention to and management of expenses.

We perform rigorous liquidity stress testing to ensure our asset portfolio includes sufficient high quality liquid assets that could be utilized to bolster our liquidity position under increasingly stressed market conditions. These assets could be utilized as collateral for secured borrowing transactions with various third parties or by selling the securities in the open market if needed.

We also manage liquidity risk by limiting the sales of liabilities with features such as puts or other options that can be exercised at inopportune times. For example, as of December 31, 2019, approximately \$9.9 billion, or 99%, of our institutional guaranteed investment contracts and funding agreements cannot be redeemed by contractholders prior to maturity. Our individual annuity liabilities also contain surrender charges and other provisions limiting early surrenders.

The following table summarizes the withdrawal characteristics of our domestic general account investment contracts as of December 31, 2019.

	<u>Contractholder funds</u>	<u>Percentage</u>
	<i>(in millions)</i>	
Not subject to discretionary withdrawal	\$ 10,925.0	32.7 %
Subject to discretionary withdrawal with adjustments:		
Specified surrender charges	9,330.2	27.9
Market value adjustments	7,717.3	23.1
Subject to discretionary withdrawal without adjustments	5,442.7	16.3
Total domestic investment contracts	<u>\$ 33,415.2</u>	<u>100.0 %</u>

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Universal life insurance and certain traditional life insurance policies are also subject to discretionary withdrawals by policyholders. However, life insurance policies tend to be less susceptible to withdrawal than our investment contracts because policyholders may be subject to a new underwriting process in order to obtain a new life insurance policy. In addition, our life insurance liabilities include surrender charges to discourage early surrenders.

We had the following short-term credit facilities with various financial institutions as of December 31, 2019:

Obligor/Applicant	Financing structure	Maturity	Capacity	Amount outstanding (3)
			<i>(in millions)</i>	
PFG, PFS, and Principal Life as co-borrowers (1)	Credit facility	November 2023	\$ 600.0	\$ —
PFG, PFS, Principal Life and Principal Financial Services V (UK) LTD as co-borrowers (1)	Credit facility	November 2023	200.0	—
Principal International Chile (2)	Unsecured lines of credit		134.5	93.4
Principal Life	Unsecured line of credit	September 2020	60.0	—
Total			\$ 994.5	\$ 93.4

- (1) The credit facility was extended during the fourth quarter of 2018 and is supported by eighteen banks.
- (2) The unsecured lines of credit can be used for repurchase agreements or other borrowings. Each line has a maturity of less than one year.
- (3) The amount outstanding is reported in short-term debt on the consolidated statements of financial position.

The revolving credit facilities are committed and available for general corporate purposes. These credit facilities also provide 100% back-stop support for our commercial paper program, of which we had no outstanding balances as of December 31, 2019 and 2018. Most of the banks supporting the credit facilities have other relationships with us. Due to the financial strength and the strong relationships we have with these providers, we are comfortable we have very low risk the financial institutions would be unable or unwilling to fund these facilities.

The Holding Companies: Principal Financial Group, Inc. and Principal Financial Services, Inc. The principal sources of funds available to our parent holding company, PFG, are dividends from subsidiaries as well as its ability to borrow funds at competitive rates and raise capital to meet operating and growth needs. These funds are used by PFG to meet its obligations, which include the payment of dividends on common stock, debt service and the repurchase of stock. The declaration and payment of common stock dividends is subject to the discretion of our Board of Directors and will depend on our overall financial condition, results of operations, capital levels, cash requirements, future prospects, receipt of dividends from Principal Life (as described below), risk management considerations and other factors deemed relevant by the Board. No significant restrictions limit the payment of dividends by PFG, except those generally applicable to corporations incorporated in Delaware.

Dividends from Principal Life, our primary subsidiary, are limited by Iowa law. Under Iowa law, Principal Life may pay dividends only from the earned surplus arising from its business and must receive the prior approval of the Commissioner of Insurance of the State of Iowa (the “Commissioner”) to pay stockholder dividends or make any other distribution if such distribution would exceed certain statutory limitations. Iowa law gives the Commissioner discretion to disapprove requests for distributions in excess of these limitations. Extraordinary dividends include those made, together with dividends and other distributions, within the preceding twelve months that exceed the greater of (i) 10% of statutory policyholder surplus as of the previous year-end or (ii) the statutory net gain from operations from the previous calendar year, not to exceed earned surplus. Based on statutory results for the year ended December 31, 2019, the ordinary stockholder dividend limitation for Principal Life is approximately \$1,060.3 million in 2020.

Total stockholder dividends paid by Principal Life to its parent in 2019 were \$1,145.0 million, \$975.0 million of which was extraordinary and approved by the Commissioner. As of December 31, 2019, we had \$1,750.0 million of cash and liquid assets held in our holding companies and other subsidiaries, which is available for corporate purposes. This includes assets in excess of targeted statutory capital ratios and immediate working capital needs. Corporate balances held in foreign holding companies meet the indefinite reinvestment exception (see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes”). We recorded a one-time deemed repatriation tax on certain accumulated foreign earnings as a result of the U.S. tax reform; however, we have not had a change in the indefinite reinvestment assertion as we still have plans in place to use cash offshore.

In 2018, total stockholder dividends paid by Principal Life to its parent were \$840.0 million, all of which was extraordinary and approved by the Commissioner.

On May 1, 2017, Principal Life sold its ownership interest in Principal Global Investors, LLC to Principal Life's direct parent, PFS, in connection with a corporate reorganization designed to better utilize and allocate capital internally. Subsequent to the sale, Principal Life paid an extraordinary dividend of \$1,068.4 million to its parent, which was approved by the Commissioner, primarily from proceeds received from the sale. In 2017, total stockholder dividends paid by Principal Life to its parent were \$1,818.4 million, all of which was extraordinary and approved by the Commissioner.

Operations. Our primary consolidated cash flow sources are premiums from insurance products, pension and annuity deposits, asset management fee revenues, administrative services fee revenues, income from investments and proceeds from the sales or maturity of investments. Cash outflows consist primarily of payment of benefits to policyholders and beneficiaries, income and other taxes, current operating expenses, payment of dividends to policyholders, payments in connection with investments acquired, payments made to acquire subsidiaries, payments relating to policy and contract surrenders, withdrawals, policy loans, interest payments and repayment of short-term debt and long-term debt. Our investment strategies are generally intended to provide adequate funds to pay benefits without forced sales of investments. For a discussion of our investment objectives and strategies, see "Investments."

Cash Flows. All cash flow activity, as reported in our consolidated statements of cash flows, provides relevant information regarding our sources and uses of cash. The following discussion of our operating, investing and financing portions of the cash flows excludes cash flows attributable to the separate accounts.

Net cash provided by operating activities was \$5,493.2 million, \$5,156.5 million and \$4,188.0 million for the years ended December 31, 2019, 2018 and 2017, respectively. Our insurance businesses typically generate positive cash flows from operating activities, as premiums collected from our insurance products and income received from our investments exceed acquisition costs, benefits paid, redemptions and operating expenses. These positive cash flows are then invested to support the obligations of our insurance and investment products and required capital supporting these products. Our cash flows from operating activities are affected by the timing of premiums, fees and investment income received and benefits and expenses paid. The increase in cash provided by operating activities in 2019 compared to 2018 was primarily due to fluctuations in receivables and payables associated with the timing of settlements. The increase in cash provided by operating activities in 2018 compared to 2017 was primarily due to growth in the business and a decrease in net cash outflows for trading securities and equity securities with operating intent.

Net cash used in investing activities was \$7,688.5 million, \$5,702.5 million and \$4,052.8 million for the years ended December 31, 2019, 2018 and 2017, respectively. The increase in cash used in investing activities in 2019 compared to 2018 was primarily due to \$1,209.6 million of cash paid for the Acquired Business. Additionally, cash used in investing activities increased as a result of portfolio mix variances, including net purchases of fixed maturities available-for-sale and equity securities with intent to hold. The increase in cash used in investing activities in 2018 compared to 2017 was driven by increased net purchases of fixed maturities available-for-sale and equity securities with intent to hold, an increase in mortgage loans acquired or originated and a decrease in cash provided from the sale of real estate.

Net cash provided by financing activities was \$1,733.7 million and \$1,052.7 million for the years ended December 31, 2019 and 2018, respectively, compared to net cash used in financing activities of \$384.0 million for the year ended December 31, 2017. The increase in cash provided by financing activities in 2019 compared to 2018 was primarily the result of the \$500.0 million senior note issuance in 2019, the proceeds of which were used to fund a portion of the purchase price of the Acquired Business. The increase in cash provided by financing activities in 2018 compared to 2017 was the result of higher net investment contract deposits in 2018 as compared to 2017.

Shelf Registration. On May 3, 2017, our shelf registration statement was filed with the SEC and became effective. The shelf registration replaced the shelf registration that had been in effect since May 2014. Under our current shelf registration, we have the ability to issue, in unlimited amounts, unsecured senior debt securities or subordinated debt securities, junior subordinated debt, preferred stock, common stock, warrants, depositary shares, purchase contracts and purchase units of PFG. Our wholly owned subsidiary, PFS, may guarantee, fully and unconditionally or otherwise, our obligations with respect to any non-convertible securities, other than common stock, described in the shelf registration. For information on senior notes issued from our shelf registration, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 9, Debt."

Short-Term Debt. For short-term debt information, see the previous Liquidity section and Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 9, Debt."

Long-Term Debt. On May 7, 2019, we issued \$500.0 million of senior notes. The proceeds from the issuance of these notes were used to fund a portion of the purchase price of the Acquired Business. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 9, Debt” for further information.

Contingent Funding Agreements for Senior Debt Issuance. On March 8, 2018, we entered into two contingent funding agreements that give us the right at any time over a ten-year or thirty-year period to issue up to \$400.0 million or \$350.0 million, respectively, of senior notes. For more information on the contingent funding agreements, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 9, Debt” under the caption “Contingent Funding Agreements for Senior Debt Issuance.”

Stockholders’ Equity. Proceeds from the issuance of our common stock were \$37.7 million, \$64.0 million and \$162.5 million in 2019, 2018 and 2017, respectively.

The following table summarizes our return of capital to common stockholders.

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Dividends to stockholders	\$ 606.0	\$ 598.6	\$ 540.0
Repurchase of common stock	281.0	671.6	220.4
Total cash returned to stockholders	<u>\$ 887.0</u>	<u>\$ 1,270.2</u>	<u>\$ 760.4</u>
Number of shares repurchased	5.5	12.1	3.6

For additional stockholders’ equity information, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 13, Stockholders’ Equity.”

Capitalization

The following table summarizes our capital structure:

	December 31, 2019	December 31, 2018
	<i>(\$ in millions)</i>	
Debt:		
Short-term debt	\$ 93.4	\$ 42.9
Long-term debt	3,734.1	3,259.6
Total debt	<u>3,827.5</u>	<u>3,302.5</u>
Total stockholders’ equity attributable to PFG	14,618.0	11,390.0
Total capitalization	<u>\$ 18,445.5</u>	<u>\$ 14,692.5</u>
Debt to equity	26 %	29 %
Debt to capitalization	21 %	22 %

Contractual Obligations

The following table presents payments due by period for long-term contractual obligations as of December 31, 2019.

Contractual obligations (1)	Total payments	Payments due in year ending			
		2020	2021 - 2022 <i>(in millions)</i>	2023 - 2024	2025 and thereafter
Contractholder funds (2)	\$ 102,125.0	\$ 7,002.4	\$ 13,210.6	\$ 9,398.1	\$ 72,513.9
Future policy benefits and claims (3)	62,068.1	3,509.4	6,431.5	6,047.5	46,079.7
Long-term debt (4)	3,734.1	65.9	302.5	331.5	3,034.2
Certificates of deposit (5)	469.6	217.9	168.3	83.2	0.2
Other long-term liabilities (6)	2,475.1	2,131.6	79.5	69.9	194.1
Finance leases (7)	32.9	14.8	15.6	2.4	0.1
Long-term debt interest (4)	2,526.3	146.6	303.2	270.7	1,805.8
Operating leases (8)	228.8	53.9	79.0	44.2	51.7
Purchase obligations (9)	1,680.6	1,629.2	34.7	7.2	9.5
Total contractual obligations	<u>\$ 175,340.5</u>	<u>\$ 14,771.7</u>	<u>\$ 20,624.9</u>	<u>\$ 16,254.7</u>	<u>\$ 123,689.2</u>

- (1) Contractual obligations exclude short-term liabilities, other policyholder funds, taxes and short-term debt as these are not long-term and/or not contractual in nature. Contractual obligations also exclude obligations under our pension and OPEB plans as we do not anticipate contributions will be needed to satisfy the minimum funding requirements of ERISA for our qualified pension plan, nor do we anticipate contributions to the OPEB plans due to the funded status of the trust. In addition, separate account liabilities are excluded. Separate account liabilities represent the fair market value of the assets of the funds that are separately administered by us. Generally, the separate account contract owner, rather than us, bears the investment risk of these funds. The separate account liabilities are legally segregated and are not subject to claims that arise out of any other business of ours. Net deposits, net investment income and realized and unrealized capital gains and losses on the separate accounts are not reflected in the consolidated statements of operations. The separate account obligations will be fully funded by cash flows from the separate account assets.
- (2) Contractholder funds include GICs, funding agreements, individual fixed annuities, universal life insurance and other investment contracts. See Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 8, Insurance Liabilities" for additional information.
Amounts included in the contractholder funds line item reflect estimated cash payments to be made to policyholders. The sum of the cash outflows shown for all years in the table exceeds the corresponding liability amount included in our consolidated statements of financial position as of December 31, 2019. The liability amount in our consolidated statements of financial position reflects either the account value (in the case of individual fixed annuities, universal life insurance and GICs) or the par value plus accrued interest and other adjustments (in the case of funding agreements and other investment contracts).
- (3) Amounts included in the future policy benefits and claims line item reflect estimated cash payments to be made to policyholders. The sum of the cash outflows shown for all years in the table exceeds the corresponding liability amount included in our consolidated statements of financial position as of December 31, 2019. The liability amount in our consolidated statements of financial position reflects estimated cash payments to policyholders, reductions for expected future premiums, assumptions with regard to the timing of cash payments and discounting for interest.
- (4) For long-term debt information, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 9, Debt."
- (5) Amounts included in the certificates of deposit line item reflect estimated cash payments to be made, including expected interest payments. Certificates of deposit are reported with other liabilities on our consolidated statements of financial position.
- (6) Amounts included in the other long-term liabilities line item are contractual, non-cancelable and long-term in nature. The total payments primarily relate to savings deposits as well as premium associated with purchased option contracts where payments are made over the life of the contract. This line item excludes accruals, short-term items and items not contractual in nature.
- (7) Amounts included in the finance leases line item represent future minimum lease payments due under finance leases for buildings and hardware storage equipment. For finance lease information, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 12, Contingencies, Guarantees, Indemnifications and Leases" under the caption, "Leases."
- (8) Amounts included in the operating leases line item represent payments due under various operating leases for office space, data processing equipment and office furniture and equipment. For operating lease information, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 12, Contingencies, Guarantees, Indemnifications and Leases" under the caption, "Leases."
- (9) Purchase obligations include material contracts where we have a non-cancelable commitment to purchase goods and services in addition to commitments to originate loans and purchase investments.

Pension and OPEB Plan Funding

We have defined benefit pension plans covering substantially all of our U.S. employees and certain agents. See Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 11, Employee and Agent Benefits" for a complete discussion of these plans and their effect on the consolidated financial statements.

We report the net funded status of our pension and OPEB plans in the consolidated statements of financial position. The net funded status represents the difference between the fair value of plan assets and the projected benefit obligation for pension and OPEB plans. The measurement of the net funded status can vary based upon the fluctuations in the fair value of the plan assets and the actuarial assumptions used for the plans as discussed below. The net underfunded status of the pension and OPEB obligation was \$134.7 million pre-tax and \$196.0 million pre-tax as of December 31, 2019 and 2018, respectively. Nonqualified pension plan assets are not included as part of the funding status mentioned above. The nonqualified pension plan assets are held in Rabbi trusts for the benefit of all nonqualified plan participants. The assets held in a Rabbi trust are available to satisfy the claims of general creditors only in the event of bankruptcy. Therefore, these assets are fully consolidated in our consolidated statements of financial position and are not reflected in our funded status as they do not qualify as plan assets under U.S. GAAP. The market value of assets held in these trusts was \$377.8 million and \$348.8 million as of December 31, 2019 and 2018, respectively.

Our funding policy for the qualified pension plan is to fund the plan annually in an amount at least equal to the minimum annual contributions required under ERISA and, generally, not greater than the maximum amount that can be deducted for U.S. federal income tax purposes. We do not anticipate contributions will be needed in 2020 to satisfy the minimum funding requirements of ERISA for our qualified pension plan. We are unable to estimate the amount that may be contributed, but it is possible that we may fund the plans in 2020 up to \$35.0 million. This includes funding for both our qualified and nonqualified pension plans. We may contribute to our OPEB plans in 2020 pending further analysis.

Contractual Commitments

We have made commitments to fund certain limited partnerships and other funds in which we are not the general partner or investment manager. As of December 31, 2019, the amount of unfunded commitments was \$518.2 million. We are only required to fund additional equity under these commitments when called upon to do so by the partnership or fund; therefore, these commitments are not liabilities on our consolidated statements of financial position.

Off-Balance Sheet Arrangements

Variable Interest Entities. We have relationships with various types of special purpose entities and other entities where we have a variable interest as described in Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 3, Variable Interest Entities.” We have made commitments to fund certain limited partnerships, as previously discussed in “Contractual Commitments”, some of which are classified as unconsolidated variable interest entities.

Guarantees and Indemnifications. As of December 31, 2019, no significant changes to guarantees and indemnifications have occurred since December 31, 2018. For guarantee and indemnification information, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 12, Contingencies, Guarantees, Indemnifications and Leases” under the caption, “Guarantees and Indemnifications.”

Financial Strength and Credit Ratings

Our ratings are influenced by the relative ratings of our peers/competitors as well as many other factors including our operating and financial performance, capital levels, asset quality, liquidity, asset/liability management, overall portfolio mix, financial leverage (i.e., debt), risk exposures and operating leverage.

In February 2020, A.M. Best affirmed the financial strength ratings of Principal Life and PNLIC at ‘A+’. The outlook remains ‘stable’ for all financial strength ratings. The affirmation reflects the strength of our balance sheets as well as our strong operating performance, favorable business profile and very strong enterprise risk management. Concurrently, A.M. Best upgraded the Long-Term Issuer credit ratings. The outlook for the Long-Term Issuer credit rating was revised to ‘stable’ from ‘positive’. The ratings upgrade reflects the continued strengthening and evolution of our enterprise risk management capabilities.

In the fourth quarter of 2019, Fitch revised its 2020 outlook on the U.S. life insurance sector to ‘negative’ from ‘stable’ which reflects concerns over the low interest rate environment. A.M. Best, S&P and Moody’s continue to maintain a ‘stable’ industry outlook.

In August 2019, S&P affirmed the financial strength ratings of Principal Life and PNLIC at ‘A+’. S&P also affirmed PFG’s senior unsecured debt rating at ‘A-’. The outlook remains ‘stable’ for all ratings. The rating affirmation reflects S&P’s view that we have a very strong competitive position as a leader in the U.S. small to midsize 401(k) market, with strong asset management and insurance solution capabilities.

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In July 2019, Fitch affirmed the ‘AA-’ financial strength ratings of Principal Life and PNLIC. Fitch also affirmed PFG’s senior unsecured debt at ‘A-’. The outlook on all ratings remains ‘stable’. The rating reflects very strong and stable operating profitability and a very strong business profile, reflecting strong market position and significant operating scale focusing on small and midsize businesses in the retirement market.

In April 2019, we announced the signing of a definitive agreement with Wells Fargo Bank, N.A. to acquire its IRT business. Following the acquisition announcement, Fitch and S&P affirmed our ratings and stable outlook. A.M. Best commented that ratings remain unchanged, while Moody’s commented the acquisition is a credit positive. The transaction closed on July 1, 2019. For additional information regarding the acquisition, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 2, Goodwill and Other Intangible Assets”.

The following table summarizes our significant financial strength and debt ratings from the major independent rating organizations. The debt ratings shown are indicative ratings. Outstanding issuances are rated the same as indicative ratings unless otherwise noted. Actual ratings can differ from indicative ratings based on contractual terms. A rating is not a recommendation to buy, sell or hold securities. Such a rating may be subject to revision or withdrawal at any time by the assigning rating agency. Each rating should be evaluated independently of any other rating.

	<u>A.M. Best</u>	<u>Fitch</u>	<u>S&P</u>	<u>Moody’s</u>
Principal Financial Group				
Senior Unsecured Debt (1)	a	A-	A-	Baa2
Junior Subordinated Debt (2)	a-		BBB+	Baa3
Long-Term Issuer Default Rating		A		
Principal Financial Services				
Senior Unsecured Debt	a		A-	Baa1
Long-Term Issuer Default Rating		A		
Principal Life Insurance Company				
Insurer Financial Strength	A+	AA-	A+	A1
Issuer Credit Rating	aa			
Commercial Paper	AMB-1+		A-1+	P-1
Enterprise Risk Management Rating			Strong	
Principal National Life Insurance Company				
Insurer Financial Strength	A+	AA-	A+	A1

- (1) Principal Financial Group’s senior debt issuance has been rated “Baa1” by Moody’s.
- (2) Principal Financial Group’s junior subordinated debt issuance has been rated “BBB” by S&P and “Baa2” by Moody’s.

Impacts of Income Taxes

For income tax information, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 10, Income Taxes.”

Fair Value Measurement

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (an exit price). The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three levels. The fair value hierarchy gives the highest priority (Level 1) to unadjusted quoted prices in active markets for identical assets or liabilities and gives the lowest priority (Level 3) to unobservable inputs. The level in the fair value hierarchy within which the fair value measurement in its entirety falls is determined based on the lowest level input that is significant to the fair value measurement in its entirety considering factors specific to the asset or liability. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements” for further details, including a reconciliation of changes in Level 3 fair value measurements.

As of December 31, 2019, 41% of our net assets (liabilities) were Level 1, 55% were Level 2 and 4% were Level 3. Excluding separate account assets as of December 31, 2019, 3% of our net assets (liabilities) were Level 1, 97% were Level 2 and 0% were Level 3.

As of December 31, 2018, 39% of our net assets (liabilities) were Level 1, 57% were Level 2 and 4% were Level 3. Excluding separate account assets as of December 31, 2018, 3% of our net assets (liabilities) were Level 1, 97% were Level 2 and 0% were Level 3.

Changes in Level 3 Fair Value Measurements

Net assets (liabilities) measured at fair value on a recurring basis using significant unobservable inputs (Level 3) as of December 31, 2019, were \$9,191.0 million as compared to \$8,729.4 million as of December 31, 2018. The increase was primarily related to gains in our separate account assets and net purchases of certain structured securities. These increases were partially offset by net sales and transfers out of Level 3 and into Level 2 of our separate account assets and losses in investment contracts. The separate account assets transferred out of Level 3 during 2019 primarily included those we now value using the unit trust approved pooled investment fund (“APIF”) as the unit of account that were previously valued using the underlying investments of the unit trust APIF.

Net assets (liabilities) measured at fair value on a recurring basis using significant unobservable inputs (Level 3) as of December 31, 2018, were \$8,729.4 million as compared to \$7,791.7 million as of December 31, 2017. The increase was primarily related to gains and net purchases in our separate account assets and net purchases of certain structured securities. These increases were partially offset by net transfers out of Level 3 into Level 2 for certain fixed maturities, available-for-sale. The transfers out of Level 3 were due to our obtaining prices from recognized third party pricing vendors or from internal models using substantially all market observable information versus relying on broker quotes or utilizing significant unobservable inputs.

Investments

We had total consolidated assets as of December 31, 2019, of \$276,087.8 million, of which \$96,351.4 million were invested assets. The rest of our total consolidated assets are comprised primarily of separate account assets for which we do not bear investment risk; therefore, the discussion and financial information below does not include such assets.

Overall Composition of Invested Assets

Invested assets as of December 31, 2019, were predominantly high quality and broadly diversified across asset class, individual credit, industry and geographic location. Asset allocation is determined based on cash flow and the risk/return requirements of our products. As shown in the following table, the major categories of invested assets are fixed maturities and commercial mortgage loans.

	December 31, 2019		December 31, 2018	
	Carrying amount	% of total	Carrying amount	% of total
	(\$ in millions)			
Fixed maturities:				
Public	\$ 46,432.9	48 %	\$ 40,168.2	48 %
Private	24,349.2	24	20,576.4	24
Equity securities	1,879.4	2	1,843.7	2
Mortgage loans:				
Commercial	14,992.7	16	13,972.0	16
Residential	1,494.2	2	1,364.9	2
Real estate held for sale	169.8	—	209.6	—
Real estate held for investment	1,545.0	2	1,520.1	2
Policy loans	798.0	1	801.4	1
Other investments	4,690.2	5	4,310.3	5
Total invested assets	96,351.4	100 %	84,766.6	100 %
Cash and cash equivalents	2,515.9		2,977.5	
Total invested assets and cash	\$ 98,867.3		\$ 87,744.1	

Investment Results

Net Investment Income

The following table presents the yield and investment income, excluding net realized capital gains and losses, for our invested assets for the years indicated. We calculate annualized yields using a simple average of asset classes at the beginning and end of the reporting period. The yields for available-for-sale fixed maturities are calculated using amortized cost. Prior to 2018, yields on equity securities classified as available-for-sale were calculated using cost. All other yields are calculated using carrying amounts.

	For the year ended December 31,						Increase (decrease)			
	2019		2018		2017		2019 vs. 2018		2018 vs. 2017	
	Yield	Amount	Yield	Amount	Yield	Amount	Yield	Amount	Yield	Amount
	(\$ in millions)									
Fixed maturities (1)	4.2 %	\$ 2,629.8	4.3 %	\$ 2,506.3	4.3 %	\$ 2,354.9	(0.1)%	\$ 123.5	— %	\$ 151.4
Equity securities	5.9	110.5	2.1	38.8	4.0	67.8	3.8	71.7	(1.9)	(29.0)
Mortgage loans — commercial	4.3	628.4	4.2	568.0	4.4	544.6	0.1	60.4	(0.2)	23.4
Mortgage loans — residential	5.5	78.6	5.6	73.4	4.9	61.3	(0.1)	5.2	0.7	12.1
Real estate	11.1	191.1	9.2	158.8	8.3	129.4	1.9	32.3	0.9	29.4
Policy loans	5.5	44.0	5.6	45.0	5.6	45.6	(0.1)	(1.0)	—	(0.6)
Cash and cash equivalents	2.4	65.3	2.1	56.2	1.1	28.6	0.3	9.1	1.0	27.6
Other investments (1)	8.2	368.8	7.2	285.1	8.7	316.4	1.0	83.7	(1.5)	(31.3)
Total	4.5	4,116.5	4.4	3,731.6	4.5	3,548.6	0.1	384.9	(0.1)	183.0
Investment expenses	(0.1)	(118.1)	(0.1)	(102.4)	(0.1)	(89.3)	—	(15.7)	—	(13.1)
Net investment income	4.4 %	\$ 3,998.4	4.3 %	\$ 3,629.2	4.4 %	\$ 3,459.3	0.1 %	\$ 369.2	(0.1)%	\$ 169.9

- (1) Upon adoption of authoritative guidance effective January 1, 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships are reported in net investment income with the earnings effect of fixed maturities, available-for-sale. Prior to 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships were reported in net realized capital gains (losses).

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Net investment income from fixed maturities increased primarily due to higher average invested assets in our U.S. operations.

Net investment income from equity securities increased primarily due to favorable relative market performance on our required regulatory investments in our Latin America business.

Net investment income from commercial mortgage loans increased primarily due to higher average invested assets and prepayments in our U.S. operations.

Net investment income from other investments increased primarily due to higher earnings in our equity method investment in Brazil and an increase in variable investment income associated with the cash surrender value of company owned life insurance in 2019 in our U.S. operations.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Net investment income from fixed maturities increased primarily due to higher average invested assets in our U.S. operations.

Net investment income from equity securities decreased primarily due to unfavorable relative market performance on our required regulatory investments in our Latin America business.

Net investment income from real estate increased primarily due to the sale of certain value-add real estate, additional leasing in the portfolio and decreased operating expenses at the properties.

Net investment income from cash and cash equivalents increased primarily due to an increase in short-term interest rates coupled with increased cash equivalents activity compared to the prior year.

Net investment income from other investments decreased primarily due to lower earnings in our equity method investment in Brazil.

Net Realized Capital Gains (Losses)

The following table presents the contributors to net realized capital gains and losses for the years indicated.

	For the year ended			Increase (decrease)	
	December 31,			2019 vs. 2018	2018 vs. 2017
	2019	2018	2017		
	<i>(in millions)</i>				
Fixed maturities, available-for-sale — credit impairments (1)	\$ (43.5)	\$ (29.1)	\$ (80.6)	\$ (14.4)	\$ 51.5
Commercial mortgage loans — credit impairments	(0.2)	1.6	2.0	(1.8)	(0.4)
Other— credit impairments	3.2	4.6	6.9	(1.4)	(2.3)
Fixed maturities, available-for-sale and trading — noncredit	32.8	(41.2)	(21.6)	74.0	(19.6)
Derivatives and related hedge activities (2)	(94.7)	(26.5)	(168.0)	(68.2)	141.5
Other gains (losses)	49.6	15.2	785.5	34.4	(770.3)
Net realized capital gains (losses)	<u>\$ (52.8)</u>	<u>\$ (75.4)</u>	<u>\$ 524.2</u>	<u>\$ 22.6</u>	<u>\$ (599.6)</u>

- (1) Includes credit impairments as well as losses on sales of fixed maturities to reduce credit risk, net of realized credit recoveries on the sale of previously impaired securities. Credit gains on sales, excluding associated foreign currency fluctuations that are included in derivatives and related hedge activities, were a net gain of \$0.0 million, \$0.0 million and \$1.1 million for the years ended December 31, 2019, 2018 and 2017, respectively.
- (2) Includes fixed maturities, trading net gains (losses) of \$10.4 million, \$(2.4) million and \$0.0 million for the years ended December 31, 2019, 2018 and 2017, respectively, which are a component of the GMWB embedded derivative hedging program net realized capital gains (losses) reflected in this line. Upon adoption of authoritative guidance effective January 1, 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships are reported in net investment income with the earnings effect of fixed maturities, available-for-sale. Prior to 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships were reported in net realized capital gains (losses).

Year Ended December 31, 2019 Compared to Year Ended December 31, 2018

Fixed maturities, available-for-sale and trading – noncredit had net gains in 2019 as compared to net losses in 2018 primarily due to gains versus losses on trading securities related to changes in interest rates and credit spreads and available-for-sale noncredit losses during 2018 related to portfolio rebalancing.

Net realized losses on derivatives and related hedge activities increased due to losses in 2019 versus gains in 2018 on the GMWB embedded derivatives, including changes in the spread reflecting our own creditworthiness, and related hedging instruments. These changes were partially offset by increased gains on interest rate swaps not designated as hedging instruments due to changes in interest rates. Additionally, our Principal International segment had a decrease in losses on currency derivatives and embedded derivatives due to changes in exchange rates and interest rates, respectively.

Other gains increased primarily due to increases from equity securities and sponsored invested funds related primarily to mark-to-market changes and a loss on the sale of a closed block of annuity business within our Principal International operating segment in 2018. These increases were partially offset by a gain from the sale of an equity method investment during 2018 and an impairment of an equity method investment in 2019.

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Net realized capital losses on fixed maturities, available for sale – credit impairments decreased primarily due to lower impairments on corporate and structured fixed maturities.

Net realized capital losses on derivatives and related hedge activities decreased primarily due to gains in 2018 versus losses in 2017 on the GMWB embedded derivatives, including changes in the spread reflecting our own creditworthiness, and related hedging instruments and on interest rate swaps not designated as hedging instruments due to changes in interest rates. These changes were partially offset by currency derivatives that had losses in 2018 versus gains in 2017 due to changes in exchange rates.

Other gains decreased primarily due to net gains resulting from real estate transactions in 2017.

U.S. Investment Operations

Of our invested assets, \$88,563.3 million were held by our U.S. operations as of December 31, 2019. Our U.S. invested assets are managed primarily by our Principal Global Investors segment. Our Investment Committee, appointed by our Board of Directors, is responsible for establishing investment policies and monitoring risk limits and tolerances. Our primary investment objective is to maximize after-tax returns consistent with acceptable risk parameters. We seek to protect customers' benefits by optimizing the risk/return relationship on an ongoing basis, through asset/liability matching, reducing credit risk, avoiding high levels of investments that may be redeemed by the issuer, maintaining sufficiently liquid investments and avoiding undue asset concentrations through diversification. We are exposed to two primary sources of investment risk:

- credit risk, relating to the uncertainty associated with the continued ability of an obligor to make timely payments of principal and interest and
- interest rate risk, relating to the market price and/or cash flow variability associated with changes in market yield curves.

Our ability to manage credit risk is essential to our business and our profitability. We devote considerable resources to the credit analysis of each new investment. We manage credit risk through industry, issuer and asset class diversification.

A dedicated committee, comprised of senior investment professional staff members, approves the credit rating for the fixed maturities we purchase. We have teams of security analysts, organized by industry and asset class, that analyze and monitor these investments. Investments held in the portfolio are monitored on a continuous basis with a formal review documented annually or more frequently if material events affect the issuer. The analysis includes both fundamental and technical factors. The fundamental analysis encompasses both quantitative and qualitative analysis of the issuer. The qualitative analysis includes an assessment of both accounting and management aggressiveness of the issuer. In addition, technical indicators such as stock price volatility and credit default swap levels are monitored. We regularly review our investments to determine whether we should re-rate them, employing the following criteria:

- material changes in the issuer's revenues, margins, capital structure or collateral values;
- significant management or organizational changes;
- significant changes regarding the issuer's industry;
- debt service coverage or cash flow ratios that fall below industry-specific thresholds;
- violation of financial covenants and
- other business factors that relate to the issuer.

We purchase credit default swaps to hedge certain credit exposures in our investment portfolio. We economically hedged credit exposure in our portfolio by purchasing credit default swaps with a notional amount of \$75.0 million and \$95.0 million as of December 31, 2019 and December 31, 2018, respectively. We sell credit default swaps to offer credit protection to investors when entering into synthetic replicating transactions. When selling credit protection, if there is an event of default by the referenced name, we are obligated to pay the counterparty the referenced amount of the contract and receive in return the referenced security. For further information on credit derivatives sold, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 5, Derivative Financial Instruments" under the caption, "Credit Derivatives Sold."

Our use of derivatives exposes us to counterparty risk, or the risk that the counterparty fails to perform the terms of the derivative contract. We actively manage this risk by:

- obtaining approval of all new counterparties by the Investment Committee;
- establishing exposure limits that take into account non-derivative exposure we have with the counterparty as well as derivative exposure;
- performing similar credit analysis prior to approval on each derivatives counterparty that we do when lending money on a long-term basis;
- diversifying our risk across numerous approved counterparties;

- implementing credit support annex (collateral) agreements (“CSAs”) for over-the-counter derivative transactions or similar agreements with a majority of our counterparties to further limit counterparty exposures, which provide for netting of exposures;
- limiting exposure to A credit or better for over-the-counter derivative counterparties without CSAs;
- conducting stress-test analysis to determine the maximum exposure created during the life of a prospective transaction;
- daily monitoring of counterparty credit ratings, exposures and associated collateral levels and
- trading mandatorily cleared contracts through centralized clearinghouses.

We manage our exposure on a net basis, whereby we net positive and negative exposures for each counterparty with agreements in place. For further information on derivative exposure, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments” under the caption, “Balance Sheet Offsetting.”

A dedicated risk management team is responsible for centralized monitoring of the commercial mortgage loan portfolio. We apply a variety of strategies to minimize credit risk in our commercial mortgage loan portfolio. When considering new commercial mortgage loans, we review the cash flow fundamentals of the property, make a physical assessment of the underlying commercial real estate, conduct a comprehensive market analysis and compare against industry lending practices. We use a proprietary risk rating model to evaluate all new and substantially all existing loans within the portfolio. The proprietary risk model is designed to stress projected cash flows under simulated economic and market downturns. Our lending guidelines are typically 75% or less loan-to-value ratio and a debt service coverage ratio of at least 1.2 times. We analyze investments outside of these guidelines based on cash flow quality, tenancy and other factors. The following table presents loan-to-value and debt service coverage ratios for our brick and mortar commercial mortgage loans:

	<u>Weighted average loan-to-value ratio</u>		<u>Debt service coverage ratio</u>	
	<u>December 31, 2019</u>	<u>December 31, 2018</u>	<u>December 31, 2019</u>	<u>December 31, 2018</u>
New mortgages	51 %	50 %	2.4X	2.2X
Entire mortgage portfolio	45 %	45 %	2.6X	2.5X

We also seek to manage call or prepayment risk arising from changes in interest rates. We assess and price for call or prepayment risks in all of our investments and monitor these risks in accordance with asset/liability management policies.

The amortized cost and weighted average yield, calculated using amortized cost, of non-structured fixed maturity securities that will be callable at the option of the issuer, excluding securities with a make-whole provision, were \$3,135.5 million and 3.7%, respectively, as of December 31, 2019, and \$3,027.6 million and 3.6%, respectively, as of December 31, 2018. In addition, the amortized cost and weighted average yield of residential mortgage-backed pass-through securities (“RMBS”), residential collateralized mortgage obligations, and asset-backed securities - home equity with material prepayment risk were \$7,318.7 million and 3.1%, respectively, as of December 31, 2019, and \$6,474.6 million and 3.3%, respectively, as of December 31, 2018.

Our investment decisions and objectives are a function of the underlying risks and product profiles of each primary business operation. In addition, we diversify our product portfolio offerings to include products that contain features that will protect us against fluctuations in interest rates. Those features include adjustable crediting rates, policy surrender charges and market value adjustments on liquidations. For further information on our management of interest rate risk, see Item 7A. “Quantitative and Qualitative Disclosures About Market Risk – Interest Rate Risk.”

Overall Composition of U.S. Invested Assets

As shown in the following table, the major categories of U.S. invested assets are fixed maturities and commercial mortgage loans. The following discussion analyzes the composition of U.S. invested assets, but excludes invested assets of the separate accounts.

	December 31, 2019		December 31, 2018	
	Carrying amount	% of total	Carrying amount	% of total
	(\$ in millions)			
Fixed maturities:				
Public	\$ 42,677.4	48 %	\$ 36,599.0	47 %
Private	24,292.7	27	20,527.8	27
Equity securities	480.7	1	418.6	1
Mortgage loans:				
Commercial	14,693.2	17	13,721.2	18
Residential	1,086.4	1	905.8	1
Real estate held for sale	169.0	—	207.7	—
Real estate held for investment	1,544.5	2	1,518.6	2
Policy loans	777.7	1	779.8	1
Other investments	2,841.7	3	2,596.0	3
Total invested assets	88,563.3	100 %	77,274.5	100 %
Cash and cash equivalents	2,312.1		2,728.1	
Total invested assets and cash	\$ 90,875.4		\$ 80,002.6	

Fixed Maturities

Fixed maturities include bonds, ABS, redeemable preferred stock and certain non-redeemable preferred securities. Included in the privately placed category as of December 31, 2019 and December 31, 2018, were \$17.7 billion and \$15.2 billion, respectively, of securities subject to certain holding periods and resale restrictions pursuant to Rule 144A of the Securities Act of 1933.

Fixed maturities were diversified by category of issuer, as shown in the following table for the years indicated.

	December 31, 2019		December 31, 2018	
	Carrying amount	Percent of total	Carrying amount	Percent of total
	(\$ in millions)			
U.S. government and agencies	\$ 1,699.9	3 %	\$ 1,419.0	2 %
States and political subdivisions	7,479.4	11	6,214.1	11
Non-U.S. governments	855.5	1	732.0	1
Corporate - public	21,845.9	33	18,939.8	33
Corporate - private	15,539.7	23	13,502.8	24
Residential mortgage-backed pass-through securities	3,259.1	5	2,775.6	5
Commercial mortgage-backed securities	4,844.9	7	3,927.8	7
Residential collateralized mortgage obligations	3,961.0	6	3,368.7	6
Asset-backed securities	7,484.7	11	6,247.0	11
Total fixed maturities	\$ 66,970.1	100 %	\$ 57,126.8	100 %

We believe it is desirable to hold residential mortgage-backed pass-through securities due to their credit quality and liquidity as well as portfolio diversification characteristics. Our portfolio is comprised of Government National Mortgage Association, Federal National Mortgage Association and Federal Home Loan Mortgage Corporation pass-through securities. In addition, our residential collateralized mortgage obligation portfolio offers structural features that allow cash flows to be matched to our liabilities.

We purchase CMBS to diversify the overall credit risks of the fixed maturities portfolio and to provide attractive returns. The primary risks in holding CMBS are structural and credit risks. Structural risks include the security's priority in the issuer's capital structure, the adequacy of and ability to realize proceeds from the collateral and the potential for prepayments. Credit risks involve collateral and issuer/servicer risk where collateral and servicer performance may deteriorate. CMBS are predominantly comprised of large pool securitizations that are diverse by property type, borrower and geographic dispersion. The risks to any CMBS deal are determined by the credit quality of the underlying loans and how those loans perform over time. Another key risk is the vintage of the underlying loans and the state of the markets during a particular vintage. In the CMBS market, there is a material difference in the outlook for the performance of loans originated in 2004 and earlier relative to loans originated in 2005 through 2008. For loans originated prior to 2005, underwriting assumptions were more conservative regarding required debt service coverage and loan-to-value ratios. For the 2005 through 2008 vintages, real estate values peaked and the underwriting expectations were that values would continue to increase, which makes those loan values more sensitive to market declines. The 2009 and later vintages represent a return to debt service coverage ratios and loan-to-value ratios that more closely resemble loans originated prior to 2005.

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Similar to CMBS, we purchase ABS for diversification and to provide attractive returns. The primary risks in holding ABS are also structural and credit risks, which are similar to those noted above for CMBS. Our ABS portfolio is diversified by type of asset, issuer, and vintage. We actively monitor holdings of ABS to recognize adverse changes in the risk profile of each security. Prepayments in the ABS portfolio are, in general, insensitive to changes in interest rates or are insulated from such changes by call protection features. In the event we are subject to prepayment risk, we monitor the factors that impact the level of prepayment and prepayment speed for those ABS. In addition, we hold a diverse class of securities, which limits our exposure to any one security.

The international exposure held in our U.S. operation's fixed maturities portfolio was 18% of total fixed maturities as of December 31, 2019 and 20% as of December 31, 2018. It is comprised of corporate and foreign government fixed maturities. The following table presents the carrying amount of our international exposure for our U.S. operation's fixed maturities portfolio for the years indicated.

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
European Union, excluding UK	\$ 3,185.7	\$ 3,276.6
United Kingdom	2,535.1	2,343.5
Asia-Pacific	1,656.3	1,634.3
Australia/New Zealand	1,646.8	1,477.0
Latin America	1,317.6	1,014.5
Europe, non-European Union	865.5	759.2
Middle East and Africa	687.9	552.1
Other (1)	348.4	317.9
Total	<u>\$ 12,243.3</u>	<u>\$ 11,375.1</u>

(1) Includes exposure from two countries and various supranational organizations as of both December 31, 2019, and December 31, 2018.

International fixed maturities exposure is determined by the country of domicile of the parent entity of an individual asset. All international fixed maturities held by our U.S. operations are either denominated in U.S. dollars or have been swapped into U.S. dollar equivalents. Our international investments are analyzed internally by country and industry credit investment professionals. We control concentrations using issuer and country level exposure benchmarks, which are based on the credit quality of the issuer and the country. Our investment policy limits total international fixed maturities investments and we are within those internal limits. Exposure to Canada is not included in our international exposure. As of December 31, 2019 and December 31, 2018, our investments in Canada totaled \$2,111.9 million and \$1,833.6 million, respectively.

Fixed Maturities Credit Concentrations. One aspect of managing credit risk is through industry, issuer and asset class diversification. Our credit concentrations are managed to established limits. The following table presents our top ten exposures as of December 31, 2019.

	<u>Amortized cost</u>
	<i>(in millions)</i>
Berkshire Hathaway Inc.	\$ 258.0
People's Republic of China (1)	217.9
Comcast Corporation	212.0
Wells Fargo & Company	196.3
The Walt Disney Company	194.9
American Airlines Group Inc.	194.1
Duke Energy Corporation	192.5
JPMorgan Chase & Co.	191.4
Microsoft Corporation	188.3
Citigroup Inc.	187.1
Total top ten exposures	<u>\$ 2,032.5</u>

(1) Primarily includes exposure to state-owned entities operating in the energy, electric and chemical sectors.

Fixed Maturities Valuation and Credit Quality. Valuation techniques for the fixed maturities portfolio vary by security type and the availability of market data. The use of different pricing techniques and their assumptions could produce different financial results. See Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements” for further details regarding our pricing methodology. Once prices are determined, they are reviewed by pricing analysts for reasonableness based on asset class and observable market data. Investment analysts who are familiar with specific securities review prices for reasonableness through direct interaction with external sources, review of recent trade activity or use of internal models. All fixed maturities placed on the “watch list” are periodically analyzed by investment analysts. These analysts periodically meet with the Chief Investment Officer and the Portfolio Managers to determine reasonableness of the analysts’ prices. The valuation of impaired bonds for which there is no quoted price is typically based on relative value analysis and the present value of the future cash flows expected to be received. Although we believe these values reasonably reflect the fair value of those securities, the key assumptions about risk premiums, performance of underlying collateral (if any) and other market factors involve qualitative and unobservable inputs.

The Securities Valuation Office (“SVO”) of the NAIC monitors the bond investments of insurers for regulatory capital and reporting purposes and, when required, assigns securities to one of six categories referred to as NAIC designations. Although NAIC designations are not produced to aid the investment decision making process, NAIC designations may serve as a reasonable proxy for Nationally Recognized Statistical Rating Organizations’ (“NRSRO”) credit ratings for certain bonds. For most corporate bonds, NAIC designations 1 and 2 include bonds generally considered investment grade by such rating organizations. Bonds are considered investment grade when rated “Baa3” or higher by Moody’s, or “BBB-” or higher by S&P. NAIC designations 3 through 6 include bonds generally referred to as below investment grade. Bonds are considered below investment grade when rated “Ba1” or lower by Moody’s, or “BB+” or lower by S&P.

However, for loan-backed and structured securities, as defined by the NAIC, the NAIC designation is not always a reasonable indication of an NRSRO rating as described below. For CMBS and non-agency RMBS, Blackrock Solutions undertakes the modeling of those NAIC designations. Prior to December 31, 2018, other loan-backed and structured securities may have also been subject to an intrinsic price matrix as provided by the NAIC. This may result in a final designation being higher or lower than the NRSRO credit rating.

The following table presents our total fixed maturities by NAIC designation as of the years indicated as well as the percentage, based on fair value, that each designation comprises.

NAIC designation	December 31, 2019			December 31, 2018		
	Amortized cost	Carrying amount	Percent of carrying amount	Amortized cost	Carrying amount	Percent of carrying amount
	(\$ in millions)					
1	\$ 43,619.2	\$ 46,300.5	69 %	\$ 39,482.7	\$ 39,638.6	69 %
2	16,658.4	18,079.2	27	15,332.9	15,293.1	27
3	2,211.6	2,310.5	3	1,932.9	1,873.3	3
4	230.0	227.6	1	288.2	266.7	1
5	51.7	46.1	—	48.6	32.6	—
6	6.3	6.2	—	24.2	22.5	—
Total fixed maturities	\$ 62,777.2	\$ 66,970.1	100 %	\$ 57,109.5	\$ 57,126.8	100 %

Fixed maturities included 14 securities with an amortized cost of \$168.0 million, gross gains of \$5.7 million, gross losses of \$0.1 million and a carrying amount of \$173.6 million as of December 31, 2019, that were still pending a review and assignment of a designation by the SVO. Due to the timing of when fixed maturities are purchased, legal documents are filed and the review by the SVO is completed, we will always have securities in our portfolio that are unrated over a reporting period. In these instances, an equivalent designation is assigned based on our fixed income analyst’s assessment.

Commercial Mortgage-Backed Securities. As of December 31, 2019, based on amortized cost, 98% of our CMBS portfolio had an NAIC designation of 1 and 97% was issued during the more conservative underwriting periods prior to 2005 and after 2008.

The following tables present our exposure by credit quality, based on NAIC designations, and vintage for our CMBS portfolio as of the years indicated.

NAIC designation	December 31, 2019							
	2004 and prior		2005 to 2008		2009 and after		Total	
	Amortized cost	Carrying amount	Amortized cost	Carrying amount	Amortized cost	Carrying amount	Amortized cost	Carrying amount
	(in millions)							
1	\$ 0.1	\$ 0.1	\$ 96.0	\$ 97.7	\$ 4,568.4	\$ 4,672.1	\$ 4,664.5	\$ 4,769.9
2	—	—	8.4	7.9	41.9	41.9	50.3	49.8
3	—	—	8.4	8.6	8.2	8.2	16.6	16.8
4	—	—	—	—	—	—	—	—
5	2.2	2.4	7.0	4.6	—	—	9.2	7.0
6	0.3	0.2	1.2	1.2	—	—	1.5	1.4
Total (1)	\$ 2.6	\$ 2.7	\$ 121.0	\$ 120.0	\$ 4,618.5	\$ 4,722.2	\$ 4,742.1	\$ 4,844.9

(1) The CMBS portfolio included agency CMBS with a \$302.1 million amortized cost and a \$303.1 million carrying amount.

NAIC designation	December 31, 2018							
	2004 and prior		2005 to 2008		2009 and after		Total	
	Amortized cost	Carrying amount	Amortized cost	Carrying amount	Amortized cost	Carrying amount	Amortized cost	Carrying amount
	(in millions)							
1	\$ 27.0	\$ 27.6	\$ 176.4	\$ 179.4	\$ 3,763.6	\$ 3,686.7	\$ 3,967.0	\$ 3,893.7
2	—	—	5.5	5.2	6.3	5.9	11.8	11.1
3	—	—	5.8	4.6	—	—	5.8	4.6
4	—	—	5.9	5.7	—	—	5.9	5.7
5	0.1	—	10.0	9.6	—	—	10.1	9.6
6	0.9	0.6	2.8	2.5	—	—	3.7	3.1
Total (1)	\$ 28.0	\$ 28.2	\$ 206.4	\$ 207.0	\$ 3,769.9	\$ 3,692.6	\$ 4,004.3	\$ 3,927.8

(1) The CMBS portfolio included agency CMBS with a \$279.6 million amortized cost and a \$272.6 million carrying amount.

Fixed Maturities Watch List. We monitor any decline in the credit quality of fixed maturities through the designation of “problem securities,” “potential problem securities” and “restructured securities”. We define problem securities in our fixed maturity portfolio as securities: (i) with principal and/or interest payments in default or where default is perceived to be imminent in the near term, or (ii) issued by a company that went into bankruptcy subsequent to the acquisition of such securities. We define potential problem securities in our fixed maturity portfolio as securities included on an internal “watch list” for which management has concerns as to the ability of the issuer to comply with the present debt payment terms and which may result in the security becoming a problem or being restructured. The decision whether to classify a performing fixed maturity security as a potential problem involves significant subjective judgments by our management as to the likely future industry conditions and developments with respect to the issuer. We define restructured securities in our fixed maturity portfolio as securities where a concession has been granted to the borrower related to the borrower’s financial difficulties that would not have otherwise been considered. We determine that restructures should occur in those instances where greater economic value will be realized under the new terms than through liquidation or other disposition and may involve a change in contractual cash flows. If the present value of the restructured cash flows is less than the current cost of the asset being restructured, a realized capital loss is recorded in net income and a new cost basis is established.

The following table presents the total carrying amount of our fixed maturities portfolio, as well as its problem, potential problem and restructured fixed maturities for the years indicated.

	December 31, 2019	December 31, 2018
	(\$ in millions)	
Total fixed maturities (public and private)	\$ 66,970.1	\$ 57,126.8
Problem fixed maturities (1)	\$ 14.6	\$ 69.0
Potential problem fixed maturities	43.6	50.0
Restructured fixed maturities	—	2.5
Total problem, potential problem and restructured fixed maturities	\$ 58.2	\$ 121.5
Total problem, potential problem and restructured fixed maturities as a percent of total fixed maturities	0.09 %	0.21 %

(1) The problem fixed maturities carrying amount is net of other-than-temporary impairment losses.

Fixed Maturities Impairments. We have a process in place to identify securities that could potentially have a credit impairment that is other than temporary. This process involves monitoring market events that could impact issuers' credit ratings, business climate, management changes, litigation and government actions and other similar factors. This process also involves monitoring late payments, pricing levels, downgrades by rating agencies, key financial ratios, financial statements, revenue forecasts and cash flow projections as indicators of credit issues.

Each reporting period, a group of individuals including the Chief Investment Officer, our Portfolio Managers, the assigned analysts and representatives from Investment Accounting review all securities to determine whether an other-than-temporary decline in value exists and whether losses should be recognized. The analysis focuses on each issuer's ability to service its debts in a timely fashion. Formal documentation of the analysis and our decision is prepared and approved by management.

We consider relevant facts and circumstances in evaluating whether a credit or interest rate related impairment of a security is other than temporary. Relevant facts and circumstances considered include: (1) the extent and length of time the fair value has been below cost; (2) the reasons for the decline in value; (3) the financial position and access to capital of the issuer, including the current and future impact of any specific events; (4) for structured securities, the adequacy of the expected cash flows; and (5) our intent to sell the security or whether it is more likely than not we will be required to sell the security before recovery of its amortized cost which, in some cases, may extend to maturity. To the extent we determine a security is deemed to be other than temporarily impaired, an impairment loss is recognized. For additional details, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments."

We would not consider a security with unrealized losses to be other than temporarily impaired when it is not our intent to sell the security, it is not more likely than not that we would be required to sell the security before recovery of the amortized cost, which may be at maturity, and we expect to recover the amortized cost basis. However, we do sell securities under certain circumstances, such as when we have evidence of a change in the issuer's creditworthiness, when we anticipate poor relative future performance of securities, when a change in regulatory requirements modifies what constitutes a permissible investment or the maximum level of investments held or when there is an increase in capital requirements or a change in risk weights of debt securities. Sales generate both gains and losses.

A number of significant risks and uncertainties are inherent in the process of monitoring credit impairments and determining if an impairment is other than temporary. These risks and uncertainties include: (1) the risk that our assessment of an issuer's ability to meet all of its contractual obligations will change based on changes in the credit characteristics of that issuer; (2) the risk that the economic outlook will be worse than expected or have more of an impact on the issuer than anticipated; (3) the risk that our investment professionals are making decisions based on fraudulent or misstated information in the financial statements provided by issuers and (4) the risk that new information obtained by us or changes in other facts and circumstances lead us to change our intent to not sell the security prior to recovery of its amortized cost. Any of these situations could result in a charge to net income in a future period.

The net realized loss relating to other-than-temporary credit impairments and credit related sales of fixed maturities was \$43.5 million, \$29.1 million, and \$79.6 million for the years ended December 31, 2019, 2018, and 2017, respectively.

Fixed Maturities Available-for-Sale

The following tables present our fixed maturities available-for-sale by industry category and the associated gross unrealized gains and losses, including other-than-temporary impairment losses reported in AOCI, as of the years indicated.

	December 31, 2019			
	Amortized cost	Gross unrealized gains	Gross unrealized losses	Carrying amount
	<i>(in millions)</i>			
Finance — Banking	\$ 4,486.9	\$ 290.1	\$ 11.7	\$ 4,765.3
Finance — Brokerage	560.9	44.5	0.1	605.3
Finance — Finance Companies	373.2	17.2	—	390.4
Finance — Financial Other	463.4	22.8	1.8	484.4
Finance — Insurance	2,663.5	358.1	2.1	3,019.5
Finance — Real estate investment trusts ("REITs")	1,626.9	115.6	0.4	1,742.1
Industrial — Basic Industry	1,264.4	110.2	—	1,374.6
Industrial — Capital Goods	2,142.1	152.0	0.6	2,293.5
Industrial — Communications	2,802.4	353.1	0.3	3,155.2
Industrial — Consumer Cyclical	1,542.0	103.0	2.5	1,642.5
Industrial — Consumer Non—Cyclical	4,089.7	406.8	0.6	4,495.9
Industrial — Energy	2,566.5	285.7	6.7	2,845.5
Industrial — Other	442.9	23.1	0.4	465.6
Industrial — Technology	2,018.7	153.3	2.1	2,169.9
Industrial — Transportation	1,972.1	142.4	0.4	2,114.1
Utility — Electric	3,174.5	307.3	2.2	3,479.6
Utility — Natural Gas	352.8	29.2	—	382.0
Utility — Other	268.7	16.2	—	284.9
Government guaranteed	1,357.6	165.0	0.9	1,521.7
Total corporate securities	34,169.2	3,095.6	32.8	37,232.0
Residential mortgage-backed pass-through securities	2,908.7	71.9	3.8	2,976.8
Commercial mortgage-backed securities	4,713.9	126.6	23.8	4,816.7
Residential collateralized mortgage obligations	3,885.8	79.0	8.6	3,956.2
Asset-backed securities — Home equity (1)	237.1	14.5	0.6	251.0
Asset-backed securities — All other	3,958.8	36.0	5.7	3,989.1
Collateralized debt obligations — Credit	16.8	—	4.7	12.1
Collateralized debt obligations — CMBS	—	0.9	—	0.9
Collateralized debt obligations — Loans	3,209.9	2.0	9.6	3,202.3
Total mortgage-backed and other asset-backed securities	18,931.0	330.9	56.8	19,205.1
U.S. government and agencies	1,603.8	98.6	3.0	1,699.4
States and political subdivisions	6,842.8	643.6	11.6	7,474.8
Non-U.S. governments	724.6	128.4	—	853.0
Total fixed maturities, available-for-sale	\$ 62,271.4	\$ 4,297.1	\$ 104.2	\$ 66,464.3

(1) This exposure is all related to sub-prime mortgage loans.

	December 31, 2018			
	Amortized cost	Gross		Carrying amount
		unrealized gains	unrealized losses	
	(in millions)			
Finance — Banking	\$ 4,556.4	\$ 48.2	\$ 119.6	\$ 4,485.0
Finance — Brokerage	416.6	4.2	11.5	409.3
Finance — Finance Companies	342.5	2.7	9.0	336.2
Finance — Financial Other	415.5	15.2	9.2	421.5
Finance — Insurance	2,441.0	158.3	43.7	2,555.6
Finance — REITs	1,482.5	9.1	38.9	1,452.7
Industrial — Basic Industry	1,052.8	32.2	27.3	1,057.7
Industrial — Capital Goods	2,148.3	29.3	62.2	2,115.4
Industrial — Communications	2,567.7	137.4	46.1	2,659.0
Industrial — Consumer Cyclical	1,580.7	31.2	46.6	1,565.3
Industrial — Consumer Non-Cyclical	3,900.9	77.1	119.1	3,858.9
Industrial — Energy	2,377.9	115.9	55.8	2,438.0
Industrial — Other	424.2	5.2	8.7	420.7
Industrial — Technology	1,858.7	12.3	46.7	1,824.3
Industrial — Transportation	1,595.8	19.7	53.4	1,562.1
Utility — Electric	3,020.0	83.6	81.6	3,022.0
Utility — Natural Gas	476.7	14.1	16.4	474.4
Utility — Other	301.5	4.3	7.7	298.1
Government guaranteed	1,321.3	73.5	21.6	1,373.2
Total corporate securities	32,281.0	873.5	825.1	32,329.4
Residential mortgage-backed pass-through securities	2,481.3	21.5	49.8	2,453.0
Commercial mortgage-backed securities	3,990.5	17.1	93.6	3,914.0
Residential collateralized mortgage obligations	3,400.8	18.9	56.4	3,363.3
Asset-backed securities — Home equity (1)	264.5	12.0	2.9	273.6
Asset-backed securities — All other	3,551.5	8.4	23.4	3,536.5
Collateralized debt obligations — Credit	16.8	—	3.9	12.9
Collateralized debt obligations — CMBS	0.2	—	—	0.2
Collateralized debt obligations — Loans	2,434.3	—	26.6	2,407.7
Total mortgage-backed and other asset-backed securities	16,139.9	77.9	256.6	15,961.2
U.S. government and agencies	1,419.6	16.2	16.8	1,419.0
States and political subdivisions	6,110.7	195.9	95.0	6,211.6
Non-U.S. governments	683.5	61.2	13.9	730.8
Total fixed maturities, available-for-sale	<u>\$ 56,634.7</u>	<u>\$ 1,224.7</u>	<u>\$ 1,207.4</u>	<u>\$ 56,652.0</u>

(1) This exposure is all related to sub-prime mortgage loans.

Of the \$104.2 million in gross unrealized losses as of December 31, 2019, \$0.9 million in losses were attributed to securities scheduled to mature in one year or less, \$5.7 million attributed to securities scheduled to mature between one to five years, \$4.9 million attributed to securities scheduled to mature between five to ten years, \$35.9 million attributed to securities scheduled to mature after ten years and \$56.8 million related to mortgage-backed and other ABS that are not classified by maturity year. As of December 31, 2019, we were in a \$4,192.9 million net unrealized gain position as compared to a \$17.3 million net unrealized gain position as of December 31, 2018. The \$4,175.6 million increase in net unrealized gains for the year ended December 31, 2019, can be attributed to an approximate 74 basis points decrease in interest rates and tightening of credit spreads.

Fixed Maturities Available-For-Sale Unrealized Losses. We believe our long-term fixed maturities portfolio is well diversified among industry types and between publicly traded and privately placed securities. Each year, we direct the majority of our net cash inflows into investment grade fixed maturities. Our current policy is to limit the percentage of fixed maturities invested in below investment grade assets to 15%.

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We invest in privately placed fixed maturities to enhance the overall value of the portfolio, increase diversification and obtain higher yields than are possible with comparable quality public market securities. Generally, private placements provide broader access to management information, strengthened negotiated protective covenants, call protection features and, where applicable, a higher level of collateral. They are, however, generally not freely tradable because of restrictions imposed by U.S. federal and state securities laws and illiquid trading markets.

The following table presents our fixed maturities available-for-sale by investment grade and below investment grade and the associated gross unrealized gains and losses, including the other-than-temporary impairment losses reported in AOCI, as of the years indicated.

	December 31, 2019				December 31, 2018			
	Amortized cost	Gross unrealized gains	Gross unrealized losses	Carrying amount	Amortized cost	Gross unrealized gains	Gross unrealized losses	Carrying amount
	<i>(in millions)</i>							
Investment grade:								
Public	\$ 38,221.4	\$ 3,143.4	\$ 56.2	\$ 41,308.6	\$ 35,064.8	\$ 938.0	\$ 729.4	\$ 35,273.4
Private	21,587.1	1,045.2	30.3	22,602.0	19,311.8	266.4	358.9	19,219.3
Below investment grade:								
Public	912.9	47.8	6.6	954.1	974.7	6.4	62.5	918.6
Private	1,550.0	60.7	11.1	1,599.6	1,283.4	13.9	56.6	1,240.7
Total fixed maturities, available-for-sale	<u>\$ 62,271.4</u>	<u>\$ 4,297.1</u>	<u>\$ 104.2</u>	<u>\$ 66,464.3</u>	<u>\$ 56,634.7</u>	<u>\$ 1,224.7</u>	<u>\$ 1,207.4</u>	<u>\$ 56,652.0</u>

The following tables present the carrying amount and the gross unrealized losses, including other-than-temporary impairment losses reported in AOCI, on investment grade fixed maturities available-for-sale by aging category as of the years indicated.

	December 31, 2019					
	Public		Private		Total	
	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses
	<i>(in millions)</i>					
Three months or less	\$ 2,353.4	\$ 22.7	\$ 1,900.9	\$ 6.7	\$ 4,254.3	\$ 29.4
Greater than three to six months	539.6	8.5	297.9	2.7	837.5	11.2
Greater than six to nine months	48.9	2.2	55.7	0.3	104.6	2.5
Greater than nine to twelve months	12.9	0.2	3.1	—	16.0	0.2
Greater than twelve to twenty-four months	191.0	7.5	1,372.1	7.4	1,563.1	14.9
Greater than twenty-four to thirty-six months	201.6	2.2	400.9	5.3	602.5	7.5
Greater than thirty-six months	574.2	12.9	190.7	7.9	764.9	20.8
Total fixed maturities, available-for-sale	<u>\$ 3,921.6</u>	<u>\$ 56.2</u>	<u>\$ 4,221.3</u>	<u>\$ 30.3</u>	<u>\$ 8,142.9</u>	<u>\$ 86.5</u>

	December 31, 2018					
	Public		Private		Total	
	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses
	<i>(in millions)</i>					
Three months or less	\$ 1,615.5	\$ 31.8	\$ 1,874.6	\$ 26.4	\$ 3,490.1	\$ 58.2
Greater than three to six months	2,507.5	56.7	1,767.5	26.8	4,275.0	83.5
Greater than six to nine months	2,727.4	100.6	2,081.4	45.9	4,808.8	146.5
Greater than nine to twelve months	7,077.1	271.1	3,641.4	116.3	10,718.5	387.4
Greater than twelve to twenty-four months	4,002.7	119.5	2,553.6	91.7	6,556.3	211.2
Greater than twenty-four to thirty-six months	2,241.1	134.7	859.6	42.2	3,100.7	176.9
Greater than thirty-six months	287.2	15.0	96.7	9.6	383.9	24.6
Total fixed maturities, available-for-sale	<u>\$ 20,458.5</u>	<u>\$ 729.4</u>	<u>\$ 12,874.8</u>	<u>\$ 358.9</u>	<u>\$ 33,333.3</u>	<u>\$ 1,088.3</u>

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The following tables present the carrying amount and the gross unrealized losses, including other-than-temporary impairment losses reported in AOCI, on below investment grade fixed maturities available-for-sale by aging category as of the years indicated.

	December 31, 2019					
	Public		Private		Total	
	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses
	(in millions)					
Three months or less	\$ 24.4	\$ 0.2	\$ 61.3	\$ 0.6	\$ 85.7	\$ 0.8
Greater than six to nine months	7.7	0.1	22.2	0.2	29.9	0.3
Greater than twelve to twenty-four months	14.6	1.1	72.2	2.2	86.8	3.3
Greater than twenty-four to thirty-six months	13.1	2.3	3.7	0.7	16.8	3.0
Greater than thirty-six months	10.6	2.9	27.4	7.4	38.0	10.3
Total fixed maturities, available-for-sale	\$ 70.4	\$ 6.6	\$ 186.8	\$ 11.1	\$ 257.2	\$ 17.7

	December 31, 2018					
	Public		Private		Total	
	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses
	(in millions)					
Three months or less	\$ 354.1	\$ 9.7	\$ 511.8	\$ 15.6	\$ 865.9	\$ 25.3
Greater than three to six months	73.4	3.7	93.8	6.3	167.2	10.0
Greater than six to nine months	76.1	6.8	148.2	7.6	224.3	14.4
Greater than nine to twelve months	146.6	15.0	227.9	14.1	374.5	29.1
Greater than twelve to twenty-four months	58.7	4.5	35.9	3.0	94.6	7.5
Greater than twenty-four to thirty-six months	6.4	2.3	4.3	0.2	10.7	2.5
Greater than thirty-six months	57.2	20.5	38.1	9.8	95.3	30.3
Total fixed maturities, available-for-sale	\$ 772.5	\$ 62.5	\$ 1,060.0	\$ 56.6	\$ 1,832.5	\$ 119.1

The following tables present the carrying amount and the gross unrealized losses, including other-than-temporary impairment losses reported in AOCI, on fixed maturities available-for-sale where the estimated fair value had declined and remained below amortized cost by 20% or more as of the years indicated.

	December 31, 2019					
	Problem, potential problem and restructured		All other fixed maturity securities		Total	
	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses
	(in millions)					
Three months or less	\$ —	\$ —	\$ 2.5	\$ 0.9	\$ 2.5	\$ 0.9
Greater than three to six months	—	—	5.1	2.7	5.1	2.7
Greater than six to nine months	0.4	0.1	0.1	—	0.5	0.1
Greater than nine to twelve months	3.4	2.0	0.2	0.1	3.6	2.1
Greater than twelve months	1.6	1.0	12.3	4.8	13.9	5.8
Total fixed maturities, available-for-sale	\$ 5.4	\$ 3.1	\$ 20.2	\$ 8.5	\$ 25.6	\$ 11.6

	December 31, 2018					
	Problem, potential problem and restructured		All other fixed maturity securities		Total	
	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses	Carrying amount	Gross unrealized losses
	(in millions)					
Three months or less	\$ 10.4	\$ 5.7	\$ 66.6	\$ 20.8	\$ 77.0	\$ 26.5
Greater than three to six months	6.5	5.8	14.9	6.1	21.4	11.9
Greater than six to nine months	0.4	0.5	11.7	3.6	12.1	4.1
Greater than twelve months	9.2	6.5	5.3	2.7	14.5	9.2
Total fixed maturities, available-for-sale	\$ 26.5	\$ 18.5	\$ 98.5	\$ 33.2	\$ 125.0	\$ 51.7

Mortgage Loans

Mortgage loans consist of commercial mortgage loans on real estate and residential mortgage loans. The carrying amount of our commercial mortgage loan portfolio was \$14,693.2 million and \$13,721.2 million as of December 31, 2019 and December 31, 2018, respectively. The carrying amount of our residential mortgage loan portfolio was \$1,086.4 million and \$905.8 million as of December 31, 2019 and December 31, 2018, respectively.

Commercial Mortgage Loans. We generally report commercial mortgage loans on real estate at cost adjusted for amortization of premiums and accrual of discounts, computed using the interest method and net of valuation allowances.

Commercial mortgage loans play an important role in our investment strategy by:

- providing strong risk-adjusted relative value in comparison to other investment alternatives;
- enhancing total returns and
- providing strategic portfolio diversification.

As a result, we have focused on constructing a high quality portfolio of mortgages. Our portfolio is generally comprised of mortgages originated with conservative loan-to-value ratios, high debt service coverages and general purpose property types with a strong credit tenancy.

Our commercial mortgage loan portfolio consists primarily of non-recourse, fixed rate mortgages on fully or near fully leased properties. The mortgage portfolio is comprised primarily of office properties, apartments, well anchored retail properties and general - purpose industrial properties.

Our commercial mortgage loan portfolio is diversified by geography and specific collateral property type. Commercial mortgage lending in the state of California accounted for 21% of our commercial mortgage loan portfolio before valuation allowance as of both December 31, 2019 and December 31, 2018. We are, therefore, exposed to potential losses resulting from the risk of catastrophes, such as earthquakes, that may affect the region. Like other lenders, we generally do not require earthquake insurance for properties on which we make commercial mortgage loans. With respect to California properties, however, we obtain an engineering report specific to each property. The report assesses the building's design specifications, whether it has been upgraded to meet seismic building codes and the maximum loss that is likely to result from a variety of different seismic events. We also obtain a report that assesses, by building and geographic fault lines, the amount of loss our commercial mortgage loan portfolio might suffer under a variety of seismic events.

The typical borrower in our commercial loan portfolio is a single purpose entity or single asset entity. As of December 31, 2019 and December 31, 2018, the total number of commercial mortgage loans outstanding was 767 and 795, of which 46% and 48% were for loans with principal balances less than \$10.0 million, respectively. The average loan size of our commercial mortgage portfolio was \$19.2 million and \$17.3 million as of December 31, 2019 and December 31, 2018, respectively.

Commercial Mortgage Loan Credit Monitoring. For further details on monitoring and management of our commercial mortgage loan portfolio, see Item 8. "Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments" under the caption, "Mortgage Loan Credit Monitoring."

We categorize loans that are 60 days or more delinquent, loans in process of foreclosure and loans with borrowers or credit tenants in bankruptcy that are delinquent as "problem" loans. Valuation allowances or charge-offs have been recognized on most problem loans. We categorize loans that are delinquent less than 60 days where the default is expected to be cured and loans with borrowers or credit tenants in bankruptcy that are current as "potential problem" loans. The decision whether to classify a loan delinquent less than 60 days as a potential problem involves significant subjective judgments by management as to the likely future economic conditions and developments with respect to the borrower. We categorize loans for which the original note rate has been reduced below market and loans for which the principal has been reduced as "restructured" loans. We also consider loans that are refinanced more than one year beyond the original maturity or call date at below market rates as restructured.

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The following table presents the carrying amounts of problem, potential problem and restructured commercial mortgages relative to the carrying amount of all commercial mortgages for the years indicated.

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	(\$ in millions)	
Total commercial mortgages	\$ 14,693.2	\$ 13,721.2
Potential problem commercial mortgages	\$ —	\$ 5.9
Total problem, potential problem and restructured commercial mortgages	\$ —	\$ 5.9
Total problem, potential problem and restructured commercial mortgages as a percent of total commercial mortgages	— %	0.04 %

Commercial Mortgage Loan Valuation Allowance. The valuation allowance for commercial mortgage loans includes loan specific reserves for loans that are deemed to be impaired as well as reserves for pools of loans with similar risk characteristics where a property risk or market specific risk has not been identified but for which we anticipate a loss may occur. For further details on the commercial mortgage loan valuation allowance, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 4, Investments” under the caption, “Mortgage Loan Valuation Allowance.”

The following table represents our commercial mortgage loan valuation allowance for the years indicated.

	<u>For the year ended December 31, 2019</u>	<u>For the year ended December 31, 2018</u>	<u>For the year ended December 31, 2017</u>
	(\$ in millions)		
Balance, beginning of period	\$ 24.3	\$ 25.8	\$ 27.4
Provision	0.2	(1.5)	(1.6)
Balance, end of period	\$ 24.5	\$ 24.3	\$ 25.8
Valuation allowance as % of carrying value before reserves	0.17 %	0.18 %	0.20 %

Residential Mortgage Loans. The residential mortgage loan portfolio is composed of first lien mortgages with an amortized cost of \$1,077.2 million and \$893.3 million and home equity mortgages with an amortized cost of \$11.0 million and \$15.1 million as of December 31, 2019 and December 31, 2018, respectively. The home equity loans are generally second lien mortgages made up of closed-end loans and lines of credit. Non-performing residential mortgage loans, which are defined as loans 90 days or greater delinquent plus non-accrual loans, totaled \$5.5 million and \$7.2 million as of December 31, 2019 and December 31, 2018, respectively.

We establish the residential mortgage loan valuation allowance at levels considered adequate to absorb estimated probable losses within the portfolio based on management’s evaluation of the size and current risk characteristics of the portfolio. Such evaluation considers numerous factors, including, but not limited to net charge-off trends, loss forecasts, collateral values, geographic location, borrower credit scores, delinquency rates, industry condition and economic trends. The changes in the valuation allowance are reported in net realized capital gains (losses) on our consolidated statements of operations.

The following table represents our residential mortgage loan valuation allowance for the years indicated.

	<u>For the year ended December 31, 2019</u>	<u>For the year ended December 31, 2018</u>	<u>For the year ended December 31, 2017</u>
	(\$ in millions)		
Balance, beginning of period	\$ 2.6	\$ 6.4	\$ 17.0
Provision	(3.4)	(4.5)	(10.5)
Charge-offs	(0.6)	(2.4)	(5.0)
Recoveries	3.2	3.1	4.9
Balance, end of period	\$ 1.8	\$ 2.6	\$ 6.4
Valuation allowance as % of carrying value before reserves	0.17 %	0.29 %	0.88 %

Real Estate

Real estate consists primarily of commercial equity real estate. As of December 31, 2019 and December 31, 2018, the carrying amount of our equity real estate investment was \$1,713.5 million and \$1,726.3 million, respectively. Our commercial equity real estate is held in the form of wholly owned real estate, real estate acquired upon foreclosure of commercial mortgage loans and majority owned interests in real estate joint ventures.

Equity real estate is categorized as either “real estate held for investment” or “real estate held for sale.” Real estate held for investment totaled \$1,544.5 million and \$1,518.6 million as of December 31, 2019 and December 31, 2018, respectively. The carrying value of real estate held for investment is generally adjusted for impairments whenever events or changes in circumstances indicate the carrying amount of the asset may not be recoverable. Such impairment adjustments are recorded as net realized capital losses in our consolidated results of operations. Impairment adjustments recorded for the year ended December 31, 2019, were \$0.6 million. No such impairment adjustments were recorded for the year ended December 31, 2018.

The carrying amount of real estate held for sale was \$169.0 million and \$207.7 million as of December 31, 2019 and December 31, 2018, respectively. Once we identify a real estate property to be sold and it is probable that it will be sold, we classify the property as held for sale. We establish a valuation allowance subject to periodic revisions, if necessary, to adjust the carrying value of the property to reflect the lower of its current carrying value or the fair value, less associated selling costs. The valuation allowance did not change for the year ended December 31, 2019 or for the year ended December 31, 2018.

We use research, both internal and external, to recommend appropriate product and geographic allocations and changes to the equity real estate portfolio. We monitor product, geographic and industry diversification separately and together to determine the most appropriate mix.

Equity real estate is distributed across geographic regions of the country. As of December 31, 2019, our largest equity real estate portfolio concentration was in the Pacific (45%) region of the United States. By property type, our largest concentrations were in apartments (32%), office (30%), and industrial (25%) as of December 31, 2019.

Other Investments

Our other investments totaled \$2,841.7 million as of December 31, 2019, compared to \$2,596.0 million as of December 31, 2018. Other investments include interests in unconsolidated entities, which include real estate properties owned jointly with venture partners and operated by the partners; sponsored investment funds; the cash surrender value of company owned life insurance; derivative assets and other investments.

International Investment Operations

Of our invested assets, \$7,788.1 million were held by our Principal International segment as of December 31, 2019. The assets are primarily managed by the local Principal International affiliate. Due to the regulatory constraints in each location, each company maintains its own investment policies. As shown in the following table, the major category of international invested assets is fixed maturities. The following table excludes invested assets of the separate accounts.

	December 31, 2019		December 31, 2018	
	Carrying amount	Percent of total	Carrying amount	Percent of total
	(\$ in millions)			
Fixed maturities:				
Public	\$ 3,755.5	48 %	\$ 3,569.2	48 %
Private	56.5	2	48.6	1
Equity securities	1,398.7	18	1,425.1	19
Mortgage loans:				
Commercial	299.5	4	250.8	3
Residential	407.8	5	459.1	6
Real estate held for sale	0.8	—	1.9	—
Real estate held for investment	0.5	—	1.5	—
Policy loans	20.3	—	21.6	—
Other investments:				
Direct financing leases	782.9	10	830.7	11
Investment in unconsolidated operating entities	801.6	10	728.9	10
Derivative assets and other investments	264.0	3	154.7	2
Total invested assets	7,788.1	100 %	7,492.1	100 %
Cash and cash equivalents	203.8		249.4	
Total invested assets and cash	\$ 7,991.9		\$ 7,741.5	

Regulations in certain locations require investment in the funds we manage. These required regulatory investments are classified as equity securities within our consolidated statements of financial position, with all mark-to-market changes reflected in net investment income. Our investment is primarily dictated by client activity and all investment performance is retained by us.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Market Risk Exposures and Risk Management

Market risk is the risk we will incur losses due to adverse fluctuations in market rates and prices. Our primary market risk exposures are to interest rates, equity markets and foreign currency exchange rates. The active management of market risk is an integral part of our operations. We manage our overall market risk exposure within established risk tolerance ranges using several approaches, including:

- rebalancing our existing asset or liability portfolios;
- controlling the risk structure of newly acquired assets and liabilities and
- using derivative instruments to modify the market risk characteristics of existing assets or liabilities or assets expected to be purchased.

Interest Rate Risk

Interest rate risk is the risk of economic losses due to adverse changes in interest rates. Interest rate risk arises primarily from our holdings in interest sensitive assets and liabilities. Changes in interest rates impact numerous aspects of our operations, including but not limited to:

- yield on our invested assets;
- rate of interest we credit to contractholder account balances;
- timing of cash flows on assets and liabilities containing embedded prepayment options;
- cost of hedging our GMWB rider;
- discount rate used in valuing our pension and OPEB obligations;
- estimated gross profits and the amortization of our DAC asset and related actuarial balances;
- statutory reserve and capital requirements;
- asset-based fees earned on the fixed income assets we manage;
- interest expense on our long-term borrowings;
- fair value of intangible assets in our reporting units and
- fair value of financial assets and liabilities held at fair value on our consolidated statements of financial position.

Lower interest rates generally result in lower profitability in the long-term. Conversely, higher interest rates generally result in higher profitability in the long-term. However, an increase in market interest rates may cause a decline in the value of financial assets held at fair value on our consolidated statements of financial position.

Impact of Changes in Long-Term Interest Rate Assumptions

We use long-term interest rate assumptions to calculate reserves, DAC, other actuarial balances and benefit plan obligations in accordance with U.S. GAAP. In setting these assumptions, we consider a variety of factors, including historical experience, emerging trends and future expectations. We evaluate our assumptions on at least an annual basis. Due to the long-term nature of our assumptions, we generally do not revise our assumptions in response to short-term fluctuations in market interest rates. However, we will consider revising our assumptions if a significant change occurs in the factors noted above.

A reduction in our long-term interest rate assumptions may result in increases in our reserves and/or unlocking of our DAC asset and other actuarial balances. For additional information, see Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Deferred Acquisition Costs and Other Actuarial Balances.”

In addition, we have implemented reinsurance transactions utilizing affiliated reinsurers and highly rated third parties to finance a portion of the statutory reserves for our term life insurance policies and universal life insurance policies with secondary guarantees. We calculate an economic reserve, which represents an estimate of our liability associated with these contracts. The excess of the required statutory reserve over the economic reserve is secured by financing provided by highly rated third parties. The long-term interest rate assumption is a key input in the calculation of the economic reserve. A reduction in our long-term interest rate assumption would reduce the portion of the statutory reserve that can be financed through affiliated reinsurers, thus increasing the amount of invested assets we must maintain to support statutory reserves. For additional information, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 15, Statutory Insurance Financial Information.”

Impact of Changes in Interest Rates

Changes in interest rates or a sustained low interest rate environment may result in the following impacts, which would impact our financial position and results of operations:

Impact of Falling Interest Rates or Sustained Low Interest Rates	Impact of Rising Interest Rates
Adverse Impacts:	Positive Impacts:
A reduction in investment income, which may be partially offset by a reduction in the interest we credit on contractholder account balances; however, our ability to lower crediting rates may be constrained by guaranteed minimum interest rates and competitive pressures	An increase in investment income, which may be partially or fully offset by an increase in the interest we credit on contractholder account balances
An increase in the cost of hedging our GMWB rider	A decrease in the cost of hedging our GMWB rider
An increase in reserves and/or a true-up or unlocking of our DAC asset and other actuarial balances	A true-up or unlocking of our DAC asset and other actuarial balances
A reduction in the discount rate used in valuing our pension and OPEB obligations, leading to an increase in our Projected Benefit Obligation, Net Periodic Pension Cost, Accumulated Postretirement Benefit Obligation and Net Periodic Benefit Cost	An increase in the discount rate used in valuing our pension and OPEB obligations, leading to a decrease in our Projected Benefit Obligation, Net Periodic Pension Cost, Accumulated Postretirement Benefit Obligation and Net Periodic Benefit Cost
An increase in statutory capital we are required to hold as well as the amount of assets we must maintain to support statutory reserves	A decrease in statutory capital we are required to hold as well as the amount of assets we must maintain to support statutory reserves
An increase in prepayments or redemptions on mortgages and bonds we own, which would force us to reinvest the proceeds at lower interest rates	A decrease in prepayments or redemptions on mortgages and bonds we own, which would reduce our opportunity to reinvest the proceeds at higher interest rates
Positive Impacts:	Adverse Impacts:
An increase in the value of the fixed income assets we manage, resulting in an increase in our fee revenue in the short-term	A decrease in the value of the fixed income assets we manage, resulting in a decrease in our fee revenue in the short-term
A decrease in the interest expense on our long-term borrowings, to the extent the borrowings have adjustable rates or we are able to refinance our obligations at lower interest rates	An increase in the interest expense on our long-term borrowings, to the extent the borrowings have adjustable rates or we refinance our obligations at higher interest rates
An increase in the fair value of certain financial assets held at fair value on our consolidated statements of financial position	A decrease in the fair value of certain financial assets held at fair value on our consolidated statements of financial position, as discussed below
	A reduction in the fair value of intangible assets in our reporting units, potentially leading to an impairment of goodwill or other intangible assets

We estimate our earnings sensitivity to U.S. interest rates by using two distinct assumptions: a hypothetical 100 basis point immediate, parallel decrease in the treasury yield curve and a hypothetical 50 basis point immediate decrease or increase in the Interest Rate on Excess Reserves (“IOER rate”). The hypothetical 100 basis point immediate, parallel decrease in the treasury yield would reduce segment pre-tax operating earnings by less than 1% over the next 12 months excluding the impact of any potential unlocking of our DAC asset and other actuarial balances. The hypothetical 50 basis point immediate decrease or increase in the IOER rate would reduce/increase segment pre-tax operating earnings respectively by less than 0.5% over the next 12 months. These estimates reflect the impact of routine management actions in response to changes in interest rates, such as reducing the interest rates we credit on contractholder account balances, but do not reflect the impact of other actions management may consider, such as curtailing sales of certain products.

The selection of a 100 basis point immediate, parallel decrease in treasury yields and a 50 basis point immediate decrease/increase in the IOER rate should not be construed as a prediction by us of future market events, but rather as an illustration of the impact of such an event. Our exposure will change as a result of ongoing portfolio transactions in response to new business, management’s assessment of changing market conditions and changes in our mix of business.

If market rates increase rapidly, policy surrenders, withdrawals and requests for policy loans may increase as customers seek to achieve higher returns. This may result in unlocking of our DAC and other actuarial balances. We may be required to sell assets to raise the cash necessary to respond to such surrenders, withdrawals and loans, thereby realizing capital losses on the assets sold.

Guaranteed Minimum Interest Rate Exposure. The following table provides detail on the differences between the interest rates being credited to contractholders as of December 31, 2019, and the respective guaranteed minimum interest rates (“GMIRs”). Account values are broken down by GMIR level within the Retirement and Income Solutions and U.S. Insurance Solutions segments.

	Account values (1)					Total
	At GMIR	Excess of crediting rates over GMIR:				
	Up to 0.50% above GMIR	0.51% to 1.00% above GMIR	1.01% to 2.00% above GMIR	2.01% or more above GMIR		
	(\$ in millions)					
Guaranteed minimum interest rate						
Retirement and Income Solutions						
Up to 1.00%	\$ 213.9	\$ 246.0	\$ 718.5	\$ 3,980.7	\$ 2,942.1	\$ 8,101.2
1.01% - 2.00%	144.0	1,091.8	4,869.8	440.1	—	6,545.7
2.01% - 3.00%	4,897.8	0.2	—	—	—	4,898.0
3.01% - 4.00%	195.1	—	—	—	—	195.1
Subtotal	5,450.8	1,338.0	5,588.3	4,420.8	2,942.1	19,740.0
U.S. Insurance Solutions						
Up to 1.00%	—	21.6	2.3	—	—	23.9
1.01% - 2.00%	338.1	—	303.9	398.3	157.5	1,197.8
2.01% - 3.00%	1,391.4	1,128.6	531.6	107.4	—	3,159.0
3.01% - 4.00%	1,729.9	50.1	15.9	23.1	3.4	1,822.4
4.01% - 5.00%	51.7	5.5	2.6	1.7	—	61.5
Subtotal	3,511.1	1,205.8	856.3	530.5	160.9	6,264.6
Total	\$ 8,961.9	\$ 2,543.8	\$ 6,444.6	\$ 4,951.3	\$ 3,103.0	\$ 26,004.6
Percentage of total	34.5 %	9.8 %	24.8 %	19.0 %	11.9 %	100.0 %

(1) Includes only the account values, net of policy loans, for products with GMIRs and discretionary crediting rates.

In addition to the domestic account values shown in the table above, Principal International had \$626.3 million and \$513.0 million of account values with GMIRs in Hong Kong and Brazil, respectively, as of December 31, 2019. The Brazil amount includes account values from an equity method subsidiary, adjusted to reflect the proportion of the subsidiary’s results reflected in our net income. Our liabilities in Principal International are generally denominated in the functional currency of the location of operation. The pattern of interest rate movements in our international operations will likely differ from the pattern of interest rate movements in the U.S.

Impact of Rising Interest Rates on the Fair Value of Financial Assets. An increase in market interest rates may cause a decline in the value of financial assets held at fair value on our consolidated statements of financial position. Although changes in the fair value of our financial assets due to changes in interest rates may impact the amount of equity reported in our consolidated statements of financial position, these changes will not cause an economic gain or loss unless we sell investments, terminate derivative positions, determine an investment is other than temporarily impaired, or determine a derivative instrument is no longer an effective hedge.

We estimate a hypothetical 100 basis point immediate, parallel increase in interest rates would reduce the net reported fair value of our financial assets and derivatives by \$4,791.2 million as of December 31, 2019, compared to \$3,893.7 million as of December 31, 2018. This estimate only reflects the change in fair value for financial assets and derivatives reported at fair value on our consolidated statements of financial position. Assets and liabilities not reported at fair value on our consolidated statements of financial position – including mortgage loans, liabilities relating to insurance contracts, investment contracts, debt and bank deposits – are excluded from this sensitivity analysis. We believe the excluded liability items would economically serve as a partial offset to the net interest rate risk of the financial instruments included in the sensitivity analysis. Separate account assets and liabilities are also excluded from this estimate, as any interest rate risk is borne by the holder of the separate account. For more information on fair value measurements, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 14, Fair Value Measurements.”

Our selection of a 100 basis point immediate, parallel increase in interest rates is a hypothetical rate scenario we use to demonstrate potential risk. While a 100 basis point immediate, parallel increase does not represent our view of future market changes, it is a near term reasonably possible hypothetical change that illustrates the potential impact of such events. While this sensitivity analysis provides a representation of interest rate sensitivity, it is based on our portfolio exposures at a point in time and may not be representative of future market results. These exposures will change as a result of ongoing portfolio transactions in response to new business, management's assessment of changing market conditions and available investment opportunities.

Our net estimated potential loss in fair value as of December 31, 2019, increased \$897.5 million from December 31, 2018, primarily due to an increase in the balance and duration of fixed maturities, available-for-sale. The increase in the balance of fixed maturities, available-for-sale was primarily driven by an increase in net unrealized gains resulting primarily from a decrease in interest rates and tightening of credit spreads, and net purchase activity. The increase in the duration of fixed maturities, available-for-sale was primarily driven by a decrease in interest rates and tightening of credit spreads.

Interest Rate Risk Management

We manage interest rate risk through the use of an integrated risk management framework. This helps us identify, assess, monitor, report and manage our risks within established limits and risk tolerances. Our internal risk committees monitor and discuss our risk profile and identify necessary actions to mitigate impacts from interest rate risk.

The product designs within our business units result in a variety of different interest rate risk profiles. Therefore, our business units use a variety of different approaches for managing their asset and liability interest rate risks.

- *Retirement Business Stable Cash Flows* — For stable and predictable cash flow liabilities, such as pension risk transfer, full service accumulation, investment only, and newer fixed deferred annuities, we use investment strategy and hedges to tightly align the cash flow run off of these asset and liability cash flows. Immunization and embedded value analysis are also utilized in the management of interest rate risk.
- *Retirement Business Dynamic Cash Flows* — Dynamic liability cash flows, such as older fixed deferred annuities, are sensitive to policyholder behavior and the current interest rate environment. The risk and return metrics from deterministic and stochastic interest rate scenarios are used to manage the interest rate risk for these liabilities.
- *U.S. Insurance Stable Cash Flows* — Our insurance businesses in many instances contain long-term guarantees with stable and predictable liability cash flows and recurring premiums. We manage the interest rate risk through investment strategy, product crediting rates and analyzing duration and embedded value sensitivity.
- *Principal International* — Our international businesses operate within local regulations and financial market conditions (e.g., derivative markets, assets available) to achieve similar asset and liability cash flow management objectives. In locations with a limited availability of long-dated assets and derivative markets, the duration gap is managed to risk tolerances specific to each location.

We also limit our exposure to interest rate risk through our business mix and strategy. We have intentionally limited our exposure to specific products where investment margins are critical to the product's profitability, and we continue to emphasize the sale of products that generate revenues in the form of fees for service or premiums for insurance coverage and expose us to minimal interest rate risk.

Prepayment risk is controlled by limiting our exposure to investments that are prepayable without penalty prior to maturity at the option of the issuer. We also require additional yield on these investments to compensate for the risk the issuer will exercise such option. Prepayment risk is also controlled by limiting the sales of liabilities with features such as puts or other options that can be exercised at inopportune times. We manage the interest rate risk associated with our long-term borrowings by monitoring the interest rate environment and evaluating refinancing opportunities as maturity dates approach.

The plan fiduciaries use a Dynamic Asset Allocation strategy for our qualified defined benefit pension plan, which strategically allocates an increasing portion of the assets of the pension plan to fixed income securities as the funding status improves. The intended purpose of using the Dynamic Asset Allocation strategy is that the expected change in the value of the plan assets and the change in pension benefit obligation due to market movements are more likely to have more correlation versus a static allocation of assets between categories. For more information see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of

Operations — Critical Accounting Policies and Estimates — Benefit Plans” and Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 11, Employee and Agent Benefits.”

Use of Derivatives to Manage Interest Rate Risk. We use various derivative financial instruments to manage our exposure to fluctuations in interest rates, including interest rate swaps, interest rate options, swaptions and futures. We use interest rate swaps and futures contracts to hedge changes in interest rates subsequent to the issuance of an insurance liability, such as a guaranteed investment contract, but prior to the purchase of a supporting asset, or during periods of holding assets in anticipation of near term liability sales. We use interest rate swaps primarily to more closely match the interest rate characteristics of assets and liabilities. They can be used to change the sensitivity to the interest rate of specific assets and liabilities as well as an entire portfolio. We use interest rate options to manage prepayment risks in our assets and minimum guaranteed interest rates and lapse risks in our liabilities. We purchase swaptions to hedge interest rate exposure for certain assets and liabilities.

Foreign Currency Risk

Foreign currency risk is the risk we will incur economic losses due to adverse fluctuations in foreign currency exchange rates. This risk arises from foreign currency-denominated funding agreements issued to nonqualified institutional investors in the international market, foreign currency-denominated fixed maturity and equity securities, and our international operations, including expected cash flows and potential acquisition and divestiture activity.

We estimate as of December 31, 2019, a 10% immediate unfavorable change in each of the foreign currency exchange rates to which we are exposed would result in no material change to the net fair value of our foreign currency-denominated instruments identified above because we effectively hedge foreign currency-denominated instruments to minimize exchange rate impacts, which is consistent with our estimate as of December 31, 2018. However, fluctuations in foreign currency exchange rates do affect the translation of segment pre-tax operating earnings and equity of our international operations into our consolidated financial statements.

For our Principal International segment, we estimate a 10% immediate unfavorable change in each of the foreign currency exchange rates to which we were exposed would have resulted in a \$311.4 million, or 10%, reduction in the total equity excluding noncontrolling interests of our international operations as of December 31, 2019, as compared to an estimated \$313.9 million, or 10%, reduction as of December 31, 2018. We estimate a 10% unfavorable change in the average foreign currency exchange rates to which we were exposed through our international operations would have resulted in a \$46.6 million, or 12%, reduction in segment pre-tax operating earnings of our international operations for the year ended December 31, 2019, as compared to an estimated \$34.2 million, or 13%, reduction for the year ended December 31, 2018.

The selection of a 10% immediate unfavorable change in all currency exchange rates should not be construed as a prediction by us of future market events, but rather as an illustration of the potential impact of such an event. These exposures will change as a result of a change in the size and mix of our foreign operations.

Use of Derivatives to Manage Foreign Currency Risk. The foreign currency risk on funding agreements and fixed maturities in our U.S. operations is mitigated by using currency swaps that swap the foreign currency interest and principal payments to our functional currency. The notional amount of our currency swap agreements associated with foreign -denominated liabilities was \$128.3 million and \$155.2 million as of December 31, 2019 and December 31, 2018, respectively. The notional amount of our currency swap agreements associated with foreign -denominated fixed maturities was \$655.7 million and \$542.5 million as of December 31, 2019 and December 31, 2018, respectively. The notional amount of our currency forwards hedging foreign-denominated equity securities was \$57.2 million and \$50.5 million as of December 31, 2019 and December 31, 2018, respectively.

With regard to our international operations, in order to enhance the diversification of our investment portfolios we may invest in bonds denominated in a currency that is different than the currency of our liabilities. We use foreign exchange derivatives to economically hedge the currency mismatch. Our Principal International operations had currency swaps with a notional amount of \$243.2 million and \$200.9 million as of December 31, 2019 and December 31, 2018, respectively. Our Principal International operations also utilized currency forwards with a notional amount of \$935.5 million and \$738.6 million as of December 31, 2019 and December 31, 2018, respectively.

We sometimes use derivatives to hedge currency risk associated with expected cash flows from our foreign operations. We held currency forwards with a notional amount of \$269.9 million and \$74.5 million as December 31, 2019 and December 31, 2018, respectively. We also utilized currency options with a notional amount of \$53.8 million and \$525.2 million as of December 31, 2019 and December 31, 2018, respectively.

Equity Risk

Equity risk is the risk we will incur economic losses due to adverse fluctuations in equity markets. As of December 31, 2019 and December 31, 2018, the fair value of our equity securities was \$1,879.4 million and \$1,843.7 million, respectively. We estimate a 10% decline in the prices of the equity securities would result in a decline in fair value of our equity securities of \$187.9 million as of December 31, 2019, as compared to a decline in fair value of our equity securities of \$184.4 million as of December 31, 2018.

We are also exposed to the risk that asset-based fees decrease as a result of declines in assets under management due to changes in investment prices and the risk that asset management fees calculated by reference to performance could be lower. The risk of decreased asset-based and asset management fees could also impact our estimates of total gross profits used as a basis for amortizing DAC and other actuarial balances. For further discussion, see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Deferred Acquisition Costs and Other Actuarial Balances."

We also have equity risk associated with (1) fixed deferred annuity and universal life contracts that credit interest to customers based on changes in an external equity index; (2) variable annuity contracts that have a GMWB rider that allows the customer to make withdrawals of a specified annual amount, either for a fixed number of years or for the lifetime of the customer, even if the account value is reduced to zero; (3) variable annuity contracts that have a guaranteed minimum death benefit ("GMDB") that allows the death benefit to be paid, even if the account value has fallen below the GMDB amount and (4) investment contracts in which the return is subject to minimum contractual guarantees. We are also subject to equity risk based upon the assets that support our employee benefit plans. For further discussion of equity risk associated with these plans, see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates — Benefit Plans."

We estimate an immediate 10% decline in the S&P 500 index, followed by a 2% per quarter increase would reduce our annual segment pre-tax operating earnings by approximately 5% to 7% over the next 12 months. This estimate excludes the impact of any potential unlocking of our DAC asset and other actuarial balances. The selection of a 10% unfavorable change in the S&P 500 index should not be construed as a prediction by us of future market events, but rather as an illustration of the potential impact of such an event. Our exposure will change as a result of changes in our mix of business.

Separate and distinct from our equity risk associated with a decline in the S&P index, we also have equity risk associated with certain alternative investments. These investments are comprised of several asset categories (including hedge funds, private equity, infrastructure and direct lending) that provide an attractive asset match to our long-dated liabilities and create diversification benefits to our fixed income investments. The risk profile of these investments is actively monitored by our Investment Committee and our corporate risk management function. Changes in the value of these investments will impact earnings. We estimate an immediate 10% decline in the value of those assets, followed by a 2% per quarter increase would reduce our annual segment pre-tax operating earnings by less than 7%. This estimate excludes the impact of any potential unlocking of our DAC asset and other actuarial balances. The selection of a 10% unfavorable change in the value of those assets should not be construed as a prediction of future market events or correlation with changes in the S&P index, but rather as an illustration of the potential impact of such a decline in value of those assets. Furthermore, we have intentionally selected a decline in the value of alternative investments separate from a decline in the S&P 500 index because a decline in the S&P 500 index does not necessarily correlate to a comparable decline in the value of our alternative assets.

Use of Derivatives to Manage Equity Risk. We economically hedge the fixed deferred annuity and universal life products, where the interest credited is linked to an external equity index, by purchasing options that match the product's profile or selling options to offset existing exposures. We economically hedged the GMWB exposure, which includes interest rate risk and equity risk, using futures, options and interest rate swaps with notional amounts of \$292.0 million, \$1,079.6 million, and \$5,003.1 million, respectively, as of December 31, 2019, and notional amounts of \$751.7 million, \$1,004.6 million, and \$3,492.8 million, respectively, as of December 31, 2018. The fair value of both the GMWB embedded derivative and associated hedging instruments are sensitive to financial market conditions and the variance related to the change in fair value of these items for a given period is largely dependent on market conditions at the end of the period.

Item 8. Financial Statements and Supplementary Data

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Report of Independent Registered Public Accounting Firm on Internal Control Over Financial Reporting

To the Stockholders and the Board of Directors of Principal Financial Group, Inc.

Opinion on Internal Control over Financial Reporting

We have audited Principal Financial Group, Inc.'s internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), (the COSO criteria). In our opinion, Principal Financial Group, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on the COSO criteria.

As indicated in the accompanying Management's Report on Internal Control Over Financial Reporting, management's assessment of and conclusion on the effectiveness of internal control over financial reporting did not include the internal controls of the Institutional Retirement & Trust business of Wells Fargo Bank, N.A. (the Acquired Business), which is included in the 2019 consolidated financial statements of the Company and constituted less than 1% of consolidated total assets, as of December 31, 2019 and 1% of consolidated total revenues, for the year then ended. Our audit of internal control over financial reporting of the Company also did not include an evaluation of the internal control over financial reporting of the Acquired Business.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated statements of financial position of the Company as of December 31, 2019 and 2018, the related consolidated statements of operations, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes and financial statement schedules listed in the Index at Item 15(a) and our report dated February 14, 2020, expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP
Des Moines, Iowa
February 14, 2020

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Principal Financial Group, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated statements of financial position of Principal Financial Group, Inc. (the Company) as of December 31, 2019 and 2018, the related consolidated statements of operations, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes and financial statement schedules listed in the Index at Item 15(a) (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated February 14, 2020 expressed an unqualified opinion thereon.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Deferred acquisition cost amortization based on estimated gross profits

Description of the Matter

At December 31, 2019, the Company's deferred acquisition costs totaled \$3.5 billion. As discussed in Note 1 of the consolidated financial statements, the carrying amount of the deferred acquisition costs is the total of costs deferred less amortization for which a significant portion of the amortization is calculated in relation to the present value of estimated gross profits. There is significant uncertainty inherent in calculating estimated gross profits as the calculation is sensitive to management's best estimate of assumptions such as mortality, morbidity, lapses, equity returns, general account investment yields and expenses. Management's assumptions are adjusted, also known as unlocking, based on actual policyholder behavior and market experience and projecting for expected trends. The unlocking results in amortization being recalculated using the new assumptions for estimated gross profits, resulting either in additional or less cumulative amortization expense.

Auditing management's estimate of deferred acquisition costs that are amortized in relation to the present value of estimated gross profits was complex because there was a high degree of subjectivity applied in management's methods and assumptions used to calculate estimated gross profits. The high degree of subjectivity was primarily due to the sensitivity of the estimated gross profits to the methods and assumptions which have a significant effect on the valuation of the deferred acquisition costs.

How We Addressed the Matter in Our Audit

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the estimation process, including, among others, controls over the review and approval processes that management has in place for the assumptions used in measuring estimated gross profits.

We involved actuarial specialists to assist with our audit procedures which included, among others, evaluating the methodology applied by management in determining the estimated gross profits with those methods used in prior periods and in the industry. To evaluate the significant assumptions used by management in the methodology applied, we compared policyholder behavior assumptions that we identified as being higher risk to prior actual experience and management's estimates of prospective changes in these assumptions. In addition, we compared equity returns and general account investment yields to historical assumptions and observable market data. We performed an independent recalculation of estimated gross profits for a sample of product cohorts for comparison with the actuarial model used by management.

Valuation of investments in securities

Description of the Matter

A subset of the Company's \$70.8 billion fixed-income securities portfolio exhibits higher estimation uncertainty when determining fair value. The fixed-income securities, which include bonds, asset-backed securities, redeemable preferred stock and certain non-redeemable preferred securities, are classified as either available-for-sale or trading and, accordingly, are carried at fair value in the consolidated statements of financial position. As discussed in Note 14 of the consolidated financial statements, for certain securities the Company obtains prices from third party pricing vendors, a subset of which exhibit higher estimation uncertainty given the characteristics of the security. In addition, the Company uses a matrix priced internal model to develop the fair value for a subset of corporate bonds. The fair value is developed using a risk spread which creates higher estimation uncertainty.

Auditing the fair value of the securities that exhibit higher estimation uncertainty was especially challenging because determining the fair value is complex and highly judgmental and involves using inputs and assumptions that are not directly observable in the market.

*How We
Addressed the
Matter in Our
Audit*

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over management's valuation process for the fixed income securities portfolio that exhibits higher estimation uncertainty. This included, among others, testing the review and approval process that management has in place over validating the fair value from third party pricing sources and the assumptions used in determining the fair value for matrix priced securities.

To test the fair value calculation, we utilized the support of our valuation specialists which included, among others, independently calculating a reasonable range of fair values for a sample of securities by using a cash flow model and cash flow and yield assumptions based on independently obtained information or available transaction data for similar securities. We compared these ranges to management's estimates of fair value for the selected securities.

Purchase price accounting of recent business acquisition

*Description of the
Matter*

On July 1, 2019, the Company closed on an acquisition of the Institutional Retirement & Trust business from Wells Fargo Bank, N.A. for net consideration of \$1.2 billion. As discussed in Note 2 of the consolidated financial statements, this acquisition included \$545.7 million of intangible assets, mainly customer relationships, and \$618.5 million of goodwill. The Company valued customer relationships using the income approach. This valuation method derives the value by calculating the present value of the after-tax cash flows solely attributable to the specific asset.

Auditing the Company's accounting for its acquisition was complex due to the significant estimation uncertainty in determining the fair value of identified intangible assets. The significant estimation uncertainty was primarily due to the sensitivity of the fair values to assumptions about the future performance of the acquired business. The significant assumptions used to estimate the fair value of the intangible assets included a weighted average cost of capital and certain assumptions that form the basis of the projected results including revenue growth rates. These significant assumptions are forward-looking and could be affected by future economic and market conditions.

*How We
Addressed the
Matter in Our
Audit*

We obtained an understanding, evaluated the design and tested the operating effectiveness of accounting conclusions and valuation controls over the acquisition. This included, among others, management's controls over the review and approval of the assumptions and methodologies used by third party valuation specialists in the valuation of the business acquired.

To test the fair value of the Company's intangible assets, our audit procedures included, among others, evaluating the Company's use of the income approach and testing the calculation of the model. With the assistance of our valuation specialists, to evaluate the significant assumptions that are used to develop the projected financial information, we compared the significant assumptions, including the weighted average cost of capital and revenue growth rates to current and historical industry, market and economic trends, and other guideline companies within the same industry.

/s/ Ernst & Young LLP
We have served as the Company's auditor since 1967.
Des Moines, Iowa
February 14, 2020

Principal Financial Group, Inc.
Consolidated Statements of Financial Position

	December 31, 2019	December 31, 2018
<i>(in millions)</i>		
Assets		
Fixed maturities, available-for-sale (2019 and 2018 include \$99.4 million and \$94.5 million related to consolidated variable interest entities)	\$ 70,106.2	\$ 60,108.5
Fixed maturities, trading	675.9	636.1
Equity securities (2019 and 2018 include \$810.9 million and \$774.8 million related to consolidated variable interest entities)	1,879.4	1,843.7
Mortgage loans	16,486.9	15,336.9
Real estate (2019 and 2018 include \$457.6 million and \$364.0 million related to consolidated variable interest entities)	1,714.8	1,729.7
Policy loans	798.0	801.4
Other investments (2019 and 2018 include \$263.7 million and \$457.9 million related to consolidated variable interest entities and \$22.8 million and \$23.6 million measured at fair value under the fair value option)	4,690.2	4,310.3
Total investments	96,351.4	84,766.6
Cash and cash equivalents	2,515.9	2,977.5
Accrued investment income	686.6	636.2
Premiums due and other receivables	1,740.3	1,413.1
Deferred acquisition costs	3,521.3	3,693.5
Property and equipment	967.7	767.3
Goodwill	1,693.8	1,100.0
Other intangibles	1,786.7	1,315.1
Separate account assets (2019 and 2018 include \$39,130.3 million and \$37,183.3 million related to consolidated variable interest entities)	165,468.0	144,987.9
Other assets	1,356.1	1,378.9
Total assets	\$ 276,087.8	\$ 243,036.1
Liabilities		
Contractholder funds (2019 and 2018 include \$394.6 million and \$396.0 million related to consolidated variable interest entities)	\$ 41,367.5	\$ 39,699.7
Future policy benefits and claims	40,838.2	35,664.8
Other policyholder funds	959.4	888.4
Short-term debt	93.4	42.9
Long-term debt (2019 and 2018 include \$64.2 million and \$58.4 million related to consolidated variable interest entities)	3,734.1	3,259.6
Income taxes currently payable	16.2	25.3
Deferred income taxes	1,796.6	958.4
Separate account liabilities (2019 and 2018 include \$39,130.3 million and \$37,183.3 million related to consolidated variable interest entities)	165,468.0	144,987.9
Other liabilities (2019 and 2018 include \$124.4 million and \$104.9 million related to consolidated variable interest entities)	6,863.7	5,661.9
Total liabilities	261,137.1	231,188.9
Redeemable noncontrolling interest (2019 and 2018 include \$215.4 million and \$325.7 million related to consolidated variable interest entities)	264.9	391.2
Stockholders' equity		
Common stock, par value \$0.01 per share — 2,500.0 million shares authorized, 479.3 million and 476.7 million shares issued, and 276.6 million and 279.5 million shares outstanding in 2019 and 2018	4.8	4.8
Additional paid-in capital	10,182.6	10,060.7
Retained earnings	11,074.3	10,290.2
Accumulated other comprehensive income (loss)	1,037.9	(1,565.1)
Treasury stock, at cost (202.7 million and 197.2 million shares in 2019 and 2018)	(7,681.6)	(7,400.6)
Total stockholders' equity attributable to Principal Financial Group, Inc.	14,618.0	11,390.0
Noncontrolling interest	67.8	66.0
Total stockholders' equity	14,685.8	11,456.0
Total liabilities and stockholders' equity	\$ 276,087.8	\$ 243,036.1

See accompanying notes.

Principal Financial Group, Inc.
Consolidated Statements of Operations

For the year ended December 31,

2019 2018 2017

(in millions, except per share data)

Revenues			
Premiums and other considerations	\$ 7,866.6	\$ 6,409.6	\$ 6,217.4
Fees and other revenues	4,409.9	4,273.8	3,892.3
Net investment income	3,998.4	3,629.2	3,459.3
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	(9.3)	(46.3)	606.0
Net other-than-temporary impairment (losses) recoveries on available-for-sale securities	(38.3)	10.6	(28.7)
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from other comprehensive income	(5.2)	(39.7)	(53.1)
Net impairment losses on available-for-sale securities	(43.5)	(29.1)	(81.8)
Net realized capital gains (losses)	(52.8)	(75.4)	524.2
Total revenues	<u>16,222.1</u>	<u>14,237.2</u>	<u>14,093.2</u>
Expenses			
Benefits, claims and settlement expenses	9,905.8	8,192.5	7,822.6
Dividends to policyholders	119.1	123.6	124.6
Operating expenses	4,503.9	4,136.7	3,893.8
Total expenses	<u>14,528.8</u>	<u>12,452.8</u>	<u>11,841.0</u>
Income before income taxes	1,693.3	1,784.4	2,252.2
Income taxes (benefits)	249.2	230.7	(72.3)
Net income	1,444.1	1,553.7	2,324.5
Net income attributable to noncontrolling interest	49.9	7.2	14.1
Net income attributable to Principal Financial Group, Inc.	<u>\$ 1,394.2</u>	<u>\$ 1,546.5</u>	<u>\$ 2,310.4</u>
Earnings per common share			
Basic earnings per common share	<u>\$ 5.00</u>	<u>\$ 5.41</u>	<u>\$ 8.00</u>
Diluted earnings per common share	<u>\$ 4.96</u>	<u>\$ 5.36</u>	<u>\$ 7.88</u>

See accompanying notes.

Principal Financial Group, Inc.
Consolidated Statements of Comprehensive Income

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Net income	\$ 1,444.1	\$ 1,553.7	\$ 2,324.5
Other comprehensive income (loss), net:			
Net unrealized gains (losses) on available-for-sale securities	2,616.1	(1,529.6)	639.5
Noncredit component of impairment losses on fixed maturities, available-for-sale	3.0	26.4	31.2
Net unrealized gains (losses) on derivative instruments	(11.0)	16.0	(42.6)
Foreign currency translation adjustment	(78.7)	(287.6)	178.9
Net unrecognized postretirement benefit obligation	77.3	(60.9)	37.3
Other comprehensive income (loss)	<u>2,606.7</u>	<u>(1,835.7)</u>	<u>844.3</u>
Comprehensive income (loss)	4,050.8	(282.0)	3,168.8
Comprehensive income attributable to noncontrolling interest	53.6	2.7	17.7
Comprehensive income (loss) attributable to Principal Financial Group, Inc.	<u>\$ 3,997.2</u>	<u>\$ (284.7)</u>	<u>\$ 3,151.1</u>

See accompanying notes.

Principal Financial Group, Inc.
Consolidated Statements of Stockholders' Equity

	Common stock	Additional paid-in capital	Retained earnings	Accumulated other comprehensive income (loss)	Treasury stock	Noncontrolling interest	Total stockholders' equity
	(in millions)						
Balances as of January 1, 2017	\$ 4.7	\$ 9,686.0	\$ 7,720.4	\$ (675.2)	\$ (6,508.6)	\$ 66.5	\$ 10,293.8
Common stock issued	—	162.5	—	—	—	—	162.5
Stock-based compensation	—	90.2	(7.9)	—	—	0.4	82.7
Treasury stock acquired, common	—	—	—	—	(220.4)	—	(220.4)
Dividends to common stockholders	—	—	(540.0)	—	—	—	(540.0)
Distributions to noncontrolling interest	—	—	—	—	—	(8.4)	(8.4)
Contributions from noncontrolling interest	—	—	—	—	—	6.0	6.0
Purchase of subsidiary shares from noncontrolling interest (1)	—	(7.6)	—	—	—	(1.3)	(8.9)
Adjustments to redemption amount of redeemable noncontrolling interest	—	(5.9)	—	—	—	—	(5.9)
Net income (1)	—	—	2,310.4	—	—	7.1	2,317.5
Other comprehensive income (1)	—	—	—	840.7	—	2.3	843.0
Balances as of December 31, 2017	4.7	9,925.2	9,482.9	165.5	(6,729.0)	72.6	12,921.9
Common stock issued	0.1	63.9	—	—	—	—	64.0
Stock-based compensation	—	84.9	(7.7)	—	—	(0.4)	76.8
Treasury stock acquired, common	—	—	—	—	(671.6)	—	(671.6)
Dividends to common stockholders	—	—	(598.6)	—	—	—	(598.6)
Distributions to noncontrolling interest	—	—	—	—	—	(13.5)	(13.5)
Contributions from noncontrolling interest	—	—	—	—	—	3.3	3.3
Purchase of subsidiary shares from noncontrolling interest (1)	—	(20.6)	—	(1.6)	—	(1.8)	(24.0)
Adjustments to redemption amount of redeemable noncontrolling interest	—	7.3	—	—	—	(0.3)	7.0
Effects of implementation of accounting change related to equity investments, net	—	—	1.0	(1.0)	—	—	—
Effects of implementation of accounting change related to revenue recognition, net	—	—	(65.0)	25.6	—	(0.3)	(39.7)
Effects of implementation of accounting change related to intra-entity asset transfer taxes, net	—	—	8.7	—	—	—	8.7
Effects of implementation of accounting change related to the reclassification of certain tax effects, net	—	—	(77.6)	77.6	—	—	—
Net income (1)	—	—	1,546.5	—	—	9.3	1,555.8
Other comprehensive loss (1)	—	—	—	(1,831.2)	—	(2.9)	(1,834.1)
Balances as of December 31, 2018	4.8	10,060.7	10,290.2	(1,565.1)	(7,400.6)	66.0	11,456.0
Common stock issued	—	37.7	—	—	—	—	37.7
Stock-based compensation	—	89.7	(8.1)	—	—	0.3	81.9
Treasury stock acquired, common	—	—	—	—	(281.0)	—	(281.0)
Dividends to common stockholders	—	—	(606.0)	—	—	—	(606.0)
Distributions to noncontrolling interest	—	—	—	—	—	(20.9)	(20.9)
Contributions from noncontrolling interest	—	—	—	—	—	8.2	8.2
Purchase of subsidiary shares from noncontrolling interest (1)	—	(0.5)	—	—	—	(0.1)	(0.6)
Adjustments to redemption amount of redeemable noncontrolling interest	—	(5.0)	—	—	—	(0.4)	(5.4)
Effects of implementation of accounting change related to leases, net	—	—	4.0	—	—	—	4.0
Net income (1)	—	—	1,394.2	—	—	16.3	1,410.5
Other comprehensive income (1)	—	—	—	2,603.0	—	(1.6)	2,601.4
Balances as of December 31, 2019	\$ 4.8	\$ 10,182.6	\$ 11,074.3	\$ 1,037.9	\$ (7,681.6)	\$ 67.8	\$ 14,685.8

(1) Excludes amounts attributable to redeemable noncontrolling interest. See Note 13, Stockholders' Equity, for further details.

See accompanying notes.

Principal Financial Group, Inc.
Consolidated Statements of Cash Flows

	For the year ended December 31,		
	2019	2018	2017
	(in millions)		
Operating activities			
Net income	\$ 1,444.1	\$ 1,553.7	\$ 2,324.5
Adjustments to reconcile net income to net cash provided by operating activities:			
Net realized capital (gains) losses	52.8	75.4	(524.2)
Depreciation and amortization expense	226.8	205.1	195.7
Amortization of deferred acquisition costs and contract costs	371.4	277.3	234.6
Additions to deferred acquisition costs and contract costs	(515.5)	(443.4)	(421.8)
Stock-based compensation	82.6	77.4	82.7
Income from equity method investments, net of dividends received	(111.9)	(76.0)	(68.2)
Changes in:			
Accrued investment income	(50.4)	(28.7)	(30.0)
Net cash flows for trading securities and equity securities with operating intent	(53.8)	(133.7)	(332.2)
Premiums due and other receivables	(247.6)	37.8	(114.2)
Contractholder and policyholder liabilities and dividends	3,599.9	3,610.2	3,296.8
Current and deferred income taxes (benefits)	211.2	274.7	(164.4)
Real estate acquired through operating activities	(64.7)	(89.2)	(82.6)
Real estate sold through operating activities	136.1	133.6	1.4
Other assets and liabilities	401.1	(282.0)	(227.1)
Other	11.1	(35.7)	17.0
Net adjustments	4,049.1	3,602.8	1,863.5
Net cash provided by operating activities	5,493.2	5,156.5	4,188.0
Investing activities			
Fixed maturities available-for-sale and equity securities with intent to hold:			
Purchases	(14,137.1)	(13,909.8)	(13,371.6)
Sales	2,397.4	3,813.1	1,413.6
Maturities	7,064.2	6,217.6	8,743.2
Mortgage loans acquired or originated	(3,487.7)	(3,447.5)	(2,755.8)
Mortgage loans sold or repaid	2,335.9	2,228.4	1,872.0
Real estate acquired	(127.5)	(88.1)	(200.5)
Real estate sold	96.3	63.5	481.9
Net purchases of property and equipment	(132.4)	(92.3)	(164.8)
Purchase of business or interests in subsidiaries, net of cash acquired	(1,208.5)	(184.7)	—
Net change in other investments	(489.1)	(302.7)	(70.8)
Net cash used in investing activities	(7,688.5)	(5,702.5)	(4,052.8)
Financing activities			
Issuance of common stock	37.7	64.0	162.5
Acquisition of treasury stock	(281.0)	(671.6)	(220.4)
Proceeds from financing element derivatives	—	—	0.1
Payments for financing element derivatives	(26.9)	(65.9)	(77.6)
Purchase of subsidiary shares from noncontrolling interest	(1.7)	(31.1)	(13.3)
Dividends to common stockholders	(606.0)	(598.6)	(540.0)
Issuance of long-term debt	504.9	80.8	2.8
Principal repayments of long-term debt	(32.2)	(1.3)	(56.5)
Net proceeds from (repayments of) short-term borrowings	57.5	8.5	(15.5)
Investment contract deposits	9,200.0	8,308.8	10,154.4
Investment contract withdrawals	(7,747.7)	(6,589.6)	(9,914.6)
Net increase in banking operation deposits	623.4	553.0	136.6
Other	5.7	(4.3)	(2.5)
Net cash provided by (used in) financing activities	1,733.7	1,052.7	(384.0)
Net increase (decrease) in cash and cash equivalents	(461.6)	506.7	(248.8)
Cash and cash equivalents at beginning of period	2,977.5	2,470.8	2,719.6
Cash and cash equivalents at end of period	\$ 2,515.9	\$ 2,977.5	\$ 2,470.8
Supplemental information:			
Cash paid for interest	\$ 157.7	\$ 150.2	\$ 148.6
Cash paid for (received from) income taxes	\$ (8.5)	\$ (96.2)	\$ 79.3
Supplemental disclosure of non-cash activities:			
Lease assets established upon adoption of accounting guidance	\$ 168.8	\$ —	\$ —
Lease liabilities established upon adoption of accounting guidance	\$ 164.0	\$ —	\$ —
Assets received in kind for pension risk transfer transactions	\$ 1,225.8	\$ —	\$ —
Assets and liability changes resulting from exchange agreement to exit real estate joint ventures:			
Real estate properties received	\$ —	\$ —	\$ 743.2
Long-term debt assumed on real estate properties received	\$ —	\$ —	\$ 269.0
Increase in other investments due to discontinuing equity method accounting	\$ —	\$ —	\$ 222.4

See accompanying notes.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements
December 31, 2019

1. Nature of Operations and Significant Accounting Policies

Description of Business

Principal Financial Group, Inc. (“PFG”) is a leader in global investment management offering businesses, individuals and institutional clients a wide range of financial products and services, including retirement, asset management and insurance through our diverse family of financial services companies.

Basis of Presentation

The accompanying consolidated financial statements include the accounts of PFG and all other entities in which we directly or indirectly have a controlling financial interest as well as those variable interest entities (“VIEs”) in which we are the primary beneficiary. The consolidated financial statements have been prepared in conformity with U.S. generally accepted accounting principles (“U.S. GAAP”). All significant intercompany accounts and transactions have been eliminated.

Consolidation

We have relationships with various special purpose entities and other legal entities that must be evaluated to determine if the entities meet the criteria of a VIE or a voting interest entity (“VOE”). This assessment is performed by reviewing contractual, ownership and other rights, including involvement of related parties, and requires use of judgment. First, we determine if we hold a variable interest in an entity by assessing if we have the right to receive expected losses and expected residual returns of the entity. If we hold a variable interest, then the entity is assessed to determine if it is a VIE. An entity is a VIE if the equity at risk is not sufficient to support its activities, if the equity holders lack a controlling financial interest or if the entity is structured with non-substantive voting rights. In addition to the previous criteria, if the entity is a limited partnership or similar entity, it is a VIE if the limited partners do not have the power to direct the entity’s most significant activities through substantive kick-out rights or participating rights. A VIE is evaluated to determine the primary beneficiary. The primary beneficiary of a VIE is the enterprise with (1) the power to direct the activities of a VIE that most significantly impact the entity’s economic performance and (2) the obligation to absorb losses of the entity or the right to receive benefits from the entity that could potentially be significant to the VIE. When we are the primary beneficiary, we are required to consolidate the entity in our financial statements. We reassess our involvement with VIEs on a quarterly basis. For further information about VIEs, refer to Note 3, Variable Interest Entities.

If an entity is not a VIE, it is considered a VOE. VOEs are generally consolidated if we own a greater than 50% voting interest. If we determine our involvement in an entity no longer meets the requirements for consolidation under either the VIE or VOE models, the entity is deconsolidated. Entities in which we have management influence over the operating and financing decisions but are not required to consolidate, other than investments accounted for at fair value under the fair value option, are reported using the equity method.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Recent Accounting Pronouncements

Description	Date of adoption	Effect on our consolidated financial statements or other significant matters
<i>Standards not yet adopted:</i>		
<p>Targeted improvements to the accounting for long-duration insurance contracts This authoritative guidance updates certain requirements in the accounting for long-duration insurance and annuity contracts.</p> <ol style="list-style-type: none"> The assumptions used to calculate the liability for future policy benefits on traditional and limited-payment contracts will be reviewed and updated periodically. Cash flow assumptions will be reviewed at least annually and updated when necessary with the impact recognized in net income. Discount rate assumptions are prescribed as the current upper-medium grade (low credit risk) fixed income instrument yield and will be updated quarterly with the impact recognized in other comprehensive income (“OCI”). Market risk benefits, which are certain market-based options or guarantees associated with deposit or account balance contracts, will be measured at fair value. The periodic change in fair value related to instrument-specific credit risk will be recognized in OCI while the remaining change in fair value will be recognized in net income. Deferred acquisition costs (“DAC”) for all insurance and annuity contracts will be amortized on a constant basis over the expected term of the related contracts. Additional disclosures are required, including disaggregated rollforwards of significant insurance liabilities and other account balances and disclosures about significant inputs, judgments, assumptions and methods used in measurement. <p>The guidance for the liability for future policy benefits for traditional and limited-payment contracts and DAC will be applied on a modified retrospective basis; that is, to contracts in force as of the beginning of the earliest period presented based on their existing carrying amounts. An entity may elect to apply the changes retrospectively. The guidance for market risk benefits will be applied retrospectively. Early adoption is permitted.</p>	January 1, 2022	<p>Our implementation and evaluation process to date includes, but is not limited to the following:</p> <ul style="list-style-type: none"> • identifying and documenting contracts and contract features in scope of the guidance; • identifying the actuarial models, systems and processes to be updated; • evaluating and selecting our systems solutions for implementing the new guidance; • beginning to build key models; • evaluating our key accounting policies; • assessing the impact to our chart of accounts; • developing format and content of new disclosures and • evaluating transition requirements and impacts. <p>As we progress through our implementation, we will be able to better assess the impact to our consolidated financial statements; however, we expect this guidance to significantly change how we account for many of our insurance and annuity products.</p>
<p>Goodwill impairment testing This authoritative guidance simplifies how an entity is required to test goodwill for impairment by eliminating Step 2 (which measures a goodwill impairment loss by comparing the implied fair value of a reporting unit’s goodwill to the carrying amount of that goodwill) from the goodwill impairment test. A goodwill impairment loss will be the amount by which a reporting unit’s carrying value exceeds its fair value, not to exceed the carrying amount of goodwill. Entities will continue to have the option to perform a qualitative assessment to determine if a quantitative impairment test is necessary. Early adoption is permitted.</p>	January 1, 2020	<p>We expect the guidance will reduce complexity and costs associated with performing a Step 2 test, should one be needed in the future. However, the impact of eliminating the Step 2 test from any such future impairment assessment will be dependent on modeling factors that are not currently determinable. We do not expect this guidance to have a material impact on our consolidated financial statements.</p>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Description	Date of adoption	Effect on our consolidated financial statements or other significant matters
<p>Credit losses This authoritative guidance requires entities to use a current expected credit loss (“CECL”) model to measure impairment for most financial assets that are not recorded at fair value through net income. Under the CECL model, an entity will estimate lifetime expected credit losses considering available relevant information about historical events, current conditions and reasonable and supportable forecasts. The CECL model does not apply to available-for-sale debt securities. This guidance also expands the required credit loss disclosures and will be applied using a modified retrospective approach by recording a cumulative effect adjustment to retained earnings as of the beginning of the fiscal year of adoption. Early adoption is permitted.</p>	January 1, 2020	The guidance will be adopted using the modified retrospective approach. Our evaluation process is complete and included, but was not limited to, identifying financial assets within scope of the guidance, developing and refining CECL models for the relevant assets, preparing quarterly estimates of the cumulative effect of adoption, developing and refining necessary internal controls and preparing the required financial statement disclosures. The financial statement changes are not material and will result in an immaterial reduction to stockholders’ equity.
Standards adopted:		
<p>Implementation costs in a cloud computing arrangement that is a service contract This authoritative guidance aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. This guidance can be applied either retrospectively or prospectively and early adoption is permitted.</p>	January 1, 2019	The effective date of the guidance is January 1, 2020; however, we elected to early-adopt this guidance on a prospective basis, effective January 1, 2019. This guidance did not have a material impact on our consolidated financial statements.
<p>Nonemployee share-based payment accounting This authoritative guidance simplifies the accounting for share-based payments to nonemployees by generally aligning it with the accounting for share-based payments to employees. Under the guidance, the measurement of equity-classified nonemployee awards will be fixed at the grant date, where previously the measurement was fixed at performance completion date. The guidance will be applied to equity-classified nonemployee awards for which a measurement date has not been established as of the date of adoption.</p>	January 1, 2019	This guidance did not have a material impact on our consolidated financial statements.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Description	Date of adoption	Effect on our consolidated financial statements or other significant matters
<p>Leases This authoritative guidance requires lessee recognition of lease assets and lease liabilities on the balance sheet. The concept of an operating lease, where the lease assets and liabilities are off balance sheet, is eliminated under the new guidance. For lessors, the guidance modifies lease classification criteria and accounting for certain types of leases. Other key aspects of the guidance relate to the removal of the current real estate-specific guidance and new presentation and disclosure requirements. Lessees and lessors are required to recognize and measure leases using a modified retrospective approach, which includes certain optional practical expedients that may be elected. We elected the alternative transition method, which allows entities to initially apply the new standard at the adoption date and recognize a cumulative effect adjustment to the opening balance of retained earnings in the period of adoption.</p>	January 1, 2019	We adopted the guidance using the modified retrospective approach and comparative periods were not restated. Further details are included under the caption “Adoption of Lease Guidance” and in Note 12, Contingencies, Guarantees, Indemnifications and Leases.
<p>Targeted improvements to accounting for hedging activities This authoritative guidance updated certain recognition and measurement requirements for hedge accounting. The objective of the guidance is to more closely align the economics of a company’s risk management activities in its financial results and reduce the complexity of applying hedge accounting. The updates included the expansion of hedging strategies that are eligible for hedge accounting, elimination of the separate measurement and reporting of hedge ineffectiveness, presentation of the changes in the fair value of the hedging instrument in the same consolidated statement of operations line as the earnings effect of the hedged item and simplification of hedge effectiveness assessments. This guidance also included new disclosures.</p>	January 1, 2019	This guidance did not have a material impact on our consolidated financial statements. See Note 5, Derivative Financial Instruments, for further details.
<p>Premium amortization on purchased callable debt securities This authoritative guidance applies to entities that hold certain non-contingently callable debt securities, where the amortized cost basis is at a premium to the price repayable by the issuer at the earliest call date. Under the guidance the premium will be amortized to the first call date.</p>	January 1, 2019	This guidance did not have a material impact on our consolidated financial statements.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Description	Date of adoption	Effect on our consolidated financial statements or other significant matters
<p>Reclassification of certain tax effects from accumulated other comprehensive income This authoritative guidance permits a reclassification from accumulated other comprehensive income (“AOCI”) to retained earnings for the stranded tax effects resulting from U.S. tax legislation enacted on December 22, 2017, which is referred to as the “Tax Cuts and Jobs Act” (“U.S. tax reform”). The amount of that reclassification includes the change in corporate income tax rate, as well as an election to include other income tax effects related to the application of U.S. tax reform. The guidance also requires disclosures about stranded tax effects.</p>	January 1, 2018	The effective date of the guidance was January 1, 2019; however, we elected to early adopt the guidance. The guidance was applied at the beginning of the period of adoption and comparative periods were not restated. We reclassified the stranded tax effects in AOCI resulting from U.S. tax reform, which includes the change in corporate income tax rate and an election to reclassify the tax effects of the one-time deemed repatriation tax. A reclassification of \$77.6 million was recorded as an increase to AOCI and a decrease to retained earnings.
<p>Revenue recognition This authoritative guidance replaces all general and most industry specific revenue recognition guidance currently prescribed by U.S. GAAP. The core principle is that an entity recognizes revenue to reflect the transfer of a promised good or service to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for that good or service. This guidance also provides clarification on when an entity is a principal or an agent in a transaction. In addition, the guidance updates the accounting for certain costs associated with obtaining and fulfilling a customer contract. The guidance may be applied using one of the following two methods: (1) retrospectively to each prior reporting period presented, or (2) retrospectively with the cumulative effect of initially applying the standard recognized at the date of initial application.</p>	January 1, 2018	We adopted the guidance using the modified retrospective approach. The guidance did not have a material impact on our consolidated financial statements. A cumulative effect adjustment of \$39.7 million was recorded as a decrease to total stockholders' equity. See Note 17, Revenues from Contracts with Customers, for further details.
<p>Income tax - intra-entity transfers of assets This authoritative guidance requires entities to recognize current and deferred income tax resulting from an intra-entity asset transfer when the transfer occurs. Prior to issuance of this guidance, U.S. GAAP did not allow recognition of income tax consequences until the asset had been sold to a third party. This guidance requires adoption through a cumulative effect adjustment to the balance sheet as of the beginning of the fiscal year of adoption.</p>	January 1, 2018	We adopted the guidance using the modified retrospective approach. A cumulative effect adjustment of \$8.7 million was recorded as an increase to retained earnings. In addition, other assets and deferred income taxes decreased \$21.1 million and \$29.8 million, respectively, due to the adoption of this guidance.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Description	Date of adoption	Effect on our consolidated financial statements or other significant matters
<p>Financial instruments - recognition and measurement This authoritative guidance addresses certain aspects of recognition, measurement, presentation and disclosure of financial instruments. The guidance eliminated the classification of equity securities into different categories (trading or available-for-sale) and requires equity investments to be measured at fair value with changes in the fair value recognized through net income. The guidance also updated certain financial instrument disclosures and eliminated the requirement to disclose the methods and significant assumptions used to estimate the fair value of financial instruments that are measured at amortized cost on the balance sheet.</p>	January 1, 2018	We adopted this guidance using the modified retrospective approach. A cumulative effect adjustment of \$1.0 million was recorded as a decrease to AOCI and a corresponding increase to retained earnings. The guidance did not have a material impact on our consolidated financial statements. See Note 4, Investments, for further details.
<p>Nonfinancial asset derecognition and partial sales of nonfinancial assets This authoritative guidance clarifies the scope of the recently established guidance on nonfinancial asset derecognition and the accounting for partial sales of nonfinancial assets. The guidance conforms the derecognition guidance on nonfinancial assets with the model for transactions in the new revenue recognition standard.</p>	January 1, 2018	The guidance did not have a material impact on our consolidated financial statements.
<p>Presentation of net periodic pension cost and net periodic postretirement benefit cost This authoritative guidance requires that an employer disaggregate the service cost component from the other components of net benefit cost. The guidance also provides explicit guidance on the presentation of the service cost component and the other components of net benefit cost in the consolidated statement of operations and allows only the service cost component of net benefit cost to be eligible for capitalization.</p>	January 1, 2018	The guidance did not have a material impact on our consolidated financial statements.
<p>Definition of a business This authoritative guidance clarifies the definition of a business to assist with evaluating when transactions involving an integrated set of assets and activities (a “set”) should be accounted for as acquisitions or disposals of assets or businesses. The guidance requires that when substantially all of the fair value of the gross assets acquired or disposed of is concentrated in a single identifiable asset or a group of similar identifiable assets, the set is not a business. The guidance also requires a set to include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create output to be considered a business. Lastly, the guidance removes the evaluation of whether a market participant could replace missing elements and narrows the definition of outputs by more closely aligning it with how outputs are described in the revenue recognition guidance. The guidance will be applied prospectively.</p>	January 1, 2018	The guidance did not have a material impact on our consolidated financial statements.
<p>Employee share-based payment accounting This authoritative guidance changes certain aspects of accounting for and reporting share-based payments to employees including changes related to the income tax effects of share-based payments, tax withholding requirements and accounting for forfeitures. Various transition methods will apply depending on the situation being addressed.</p>	January 1, 2017	The guidance was adopted prospectively as indicated by the guidance for each area of change and did not have a material impact on our consolidated financial statements.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

When we adopt new accounting standards, we have a process in place to perform a thorough review of the pronouncement, identify the financial statement and system impacts and create an implementation plan among our impacted business units to ensure we are compliant with the pronouncement on the date of adoption. This includes having effective processes and controls in place to support the reported amounts. Each of the standards listed above is in varying stages in our implementation process based on its issuance and adoption dates. We are on track to implement guidance by the respective effective dates.

Adoption of Lease Guidance

On January 1, 2019, we adopted the guidance using the modified retrospective approach with the cumulative effect of initially applying the standard recognized at the date of adoption. We elected the package of practical expedients permitted under the transition guidance. In addition, we elected the hindsight practical expedient to determine the lease term for existing leases. We have agreements with lease and non-lease components, which we account for as a combined unit of account for all classes.

The impact of the guidance to our consolidated financial statements primarily related to the establishment of additional assets and liabilities of \$168.8 million and \$164.0 million, respectively. The difference between the additional assets and liabilities, net of deferred tax impacts, was recorded as a cumulative effect adjustment to retained earnings and increased total stockholders' equity by \$4.0 million.

Results of reporting periods beginning January 1, 2019, are presented under the new guidance, while prior period amounts are not adjusted and continue to be reported in accordance with our prior accounting. The guidance did not have a material impact on our consolidated statements of operations and did not impact earnings per common share.

Use of Estimates in the Preparation of Financial Statements

The preparation of our consolidated financial statements and accompanying notes requires management to make estimates and assumptions that affect the amounts reported and disclosed. These estimates and assumptions could change in the future as more information becomes known, which could impact the amounts reported and disclosed in the consolidated financial statements and accompanying notes. The most critical estimates include those used in determining:

- the fair value of investments in the absence of quoted market values;
- investment impairments and valuation allowances;
- the fair value of and accounting for derivatives;
- the DAC and other actuarial balances where the amortization is based on estimated gross profits ("EGPs");
- the measurement of goodwill, indefinite lived intangible assets, finite lived intangible assets and related impairments or amortization, if any;
- the liability for future policy benefits and claims;
- the value of our pension and other postretirement benefit obligations and
- accounting for income taxes and the valuation of deferred tax assets.

A description of such critical estimates is incorporated within the discussion of the related accounting policies that follow. In applying these policies, management makes subjective and complex judgments that frequently require estimates about matters that are inherently uncertain. Actual results could differ from these estimates.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Closed Block

Principal Life Insurance Company (“Principal Life”) operates a closed block (“Closed Block”) for the benefit of individual participating dividend-paying policies in force at the time of the 1998 mutual insurance holding company (“MIHC”) formation. See Note 6, Closed Block, for further details.

Cash and Cash Equivalents

Cash and cash equivalents include cash on hand, money market instruments and other debt issues with a maturity date of three months or less when purchased.

Investments

Fixed maturities include bonds, asset-backed securities (“ABS”), redeemable preferred stock and certain non-redeemable preferred securities. Equity securities include mutual funds, common stock, non-redeemable preferred stock and required regulatory investments. We classify fixed maturities as either available-for-sale or trading at the time of the purchase and, accordingly, carry them at fair value. Equity securities are also carried at fair value. See Note 14, Fair Value Measurements, for methodologies related to the determination of fair value. Unrealized gains and losses related to fixed maturities, available-for-sale, excluding those in fair value hedging relationships, are reflected in stockholders' equity, net of adjustments associated with DAC and related actuarial balances, derivatives in cash flow hedge relationships and applicable income taxes. Mark-to-market adjustments on equity securities, unrealized gains and losses related to hedged portions of fixed maturities, available-for-sale in fair value hedging relationships prior to 2019 and mark-to-market adjustments on certain fixed maturities, trading are reflected in net realized capital gains (losses). Beginning in 2019, unrealized gains and losses related to hedged portions of fixed maturities, available-for-sale in fair value hedging relationships are reflected in net investment income. Mark-to-market adjustments related to certain securities carried at fair value with an investment objective to realize economic value through mark-to-market changes are reflected in net investment income.

The amortized cost of fixed maturities includes cost adjusted for amortization of premiums and discounts, computed using the interest method. The amortized cost of fixed maturities classified as available-for-sale is adjusted for changes in fair value of hedged portions of securities in fair value hedging relationships and declines in value that are other than temporary. Impairments in value deemed to be other than temporary are primarily reported in net income as a component of net realized capital gains (losses), with noncredit impairment losses for certain fixed maturities, available-for-sale reported in OCI. Interest income, as well as prepayment fees and the amortization of the related premium or discount, is reported in net investment income. For loan-backed and structured securities, we recognize income using a constant effective yield based on currently anticipated cash flows.

Real estate investments are reported at cost less accumulated depreciation. The initial cost bases of properties acquired through loan foreclosures are the lower of the fair market values of the properties at the time of foreclosure or the outstanding loan balance. Buildings and land improvements are generally depreciated on the straight-line method over the estimated useful life of improvements and tenant improvement costs are depreciated on the straight-line method over the term of the related lease. We recognize impairment losses for properties when indicators of impairment are present and a property's expected undiscounted cash flows are not sufficient to recover the property's carrying value. In such cases, the cost basis of the property is reduced to fair value. Real estate expected to be disposed is carried at the lower of cost or fair value, less cost to sell, with valuation allowances established accordingly and depreciation no longer recognized. The carrying amount of real estate held for sale was \$169.8 million and \$209.6 million as of December 31, 2019 and 2018, respectively. Any impairment losses and any changes in valuation allowances are reported in net income.

Commercial and residential mortgage loans are generally reported at cost adjusted for amortization of premiums and accrual of discounts, computed using the interest method and net of valuation allowances. Interest income is accrued on the principal amount of the loan based on the loan's contractual interest rate. Interest income, as well as prepayment of fees and the amortization of the related premium or discount, is reported in net investment income. Any changes in the valuation allowances are reported in net realized capital gains (losses). We measure impairment based upon the difference between carrying value and estimated value less cost to sell.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Estimated value is based on either the present value of expected cash flows discounted at the loan's effective interest rate, the loan's observable market price or the fair value of the collateral. If foreclosure is probable, the measurement of any valuation allowance is based upon the fair value of the collateral.

Net realized capital gains and losses on sales of investments are determined on the basis of specific identification. In general, in addition to realized capital gains and losses on investment sales and periodic settlements on derivatives not designated as hedges, we report gains and losses related to the following in net realized capital gains (losses): other-than-temporary impairments of securities and subsequent realized recoveries, mark-to-market adjustments on equity securities, mark-to-market adjustments on certain fixed maturities, trading, mark-to-market adjustments on sponsored investment funds, mark-to-market adjustments on derivatives not designated as hedges, cash flow hedge gains (losses) when the hedged item impacts realized capital gains (losses), changes in the mortgage loan valuation allowance provision, impairments of real estate held for investment and impairments of equity method investments. Investment gains and losses on sales of certain real estate held for sale due to investment strategy and mark-to-market adjustments on certain securities carried at fair value with an investment objective to realize economic value through mark-to-market changes are reported as net investment income and are excluded from net realized capital gains (losses).

Policy loans and certain other investments are reported at cost. Interests in unconsolidated entities, joint ventures and partnerships are generally accounted for using the equity method. We have other investments reported at fair value or for which the fair value option has been elected in prior periods. See Note 14, Fair Value Measurements, for detail on these investments.

Derivatives

Overview

Derivatives are financial instruments whose values are derived from interest rates, foreign exchange rates, financial indices or the values of securities. Derivatives generally used by us include swaps, options, futures and forwards. Derivative positions are either assets or liabilities in the consolidated statements of financial position and are measured at fair value, generally by obtaining quoted market prices or through the use of pricing models. See Note 14, Fair Value Measurements, for policies related to the determination of fair value. Fair values can be affected by changes in interest rates, foreign exchange rates, financial indices, values of securities, credit spreads, and market volatility and liquidity.

Accounting and Financial Statement Presentation

We designate derivatives as either:

- (a) a hedge of the exposure to changes in the fair value of a recognized asset or liability or an unrecognized firm commitment, including those denominated in a foreign currency (“fair value hedge”);
- (b) a hedge of a forecasted transaction or the exposure to variability of cash flows to be received or paid related to a recognized asset or liability, including those denominated in a foreign currency (“cash flow hedge”);
- (c) a hedge of a net investment in a foreign operation or
- (d) a derivative not designated as a hedging instrument.

Our accounting for the ongoing changes in fair value of a derivative depends on the intended use of the derivative and the designation, as described above, and is determined when the derivative contract is entered into or at the time of redesignation. Hedge accounting is used for derivatives that are specifically designated in advance as hedges and that reduce our exposure to an indicated risk by having a high correlation between changes in the value of the derivatives and the items being hedged at both the inception of the hedge and throughout the hedge period.

Fair Value Hedges. When a derivative is designated as a fair value hedge and is determined to be highly effective, changes in its fair value, along with changes in the fair value of the hedged asset, liability or firm commitment attributable to the hedged risk, are reported in the same income statement line item that is used to report the earnings effect of the hedged item.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

For fair value hedges of fixed maturities, available-for-sale, these changes in fair value are reported in net investment income. Prior to 2019, these changes in fair value were recorded in net realized capital gains (losses). A fair value hedge determined to be highly effective may still result in a mismatch between the change in the fair value of the hedging instrument and the change in the fair value of the hedged item attributable to the hedged risk.

Cash Flow Hedges. When a derivative is designated as a cash flow hedge and is determined to be highly effective, changes in its fair value are recorded as a component of OCI. At the time the variability of cash flows being hedged impacts net income, the related portion of deferred gains or losses on the derivative instrument is reclassified and reported in net income.

Net Investment in a Foreign Operation Hedge. When a derivative is used as a hedge of a net investment in a foreign operation, its change in fair value, to the extent effective as a hedge, is recorded as a component of OCI. If the foreign operation is sold or upon complete or substantially complete liquidation, the deferred gains or losses on the derivative instrument are reclassified into net income.

Non-Hedge Derivatives. If a derivative does not qualify or is not designated for hedge accounting, all changes in fair value are reported in net income without considering the changes in the fair value of the economically associated assets or liabilities.

Hedge Documentation and Effectiveness Testing. At inception, we formally document all relationships between hedging instruments and hedged items, as well as our risk management objective and strategy for undertaking various hedge transactions. This process includes associating all derivatives designated as fair value or cash flow hedges with specific assets or liabilities on the consolidated statements of financial position or with specific firm commitments or forecasted transactions. Effectiveness of the hedge is formally assessed at inception and throughout the life of the hedging relationship. Even if a hedge is determined to be highly effective, the hedge may still result in a mismatch between the change in the fair value of the hedging instrument and the change in the fair value of the hedged item attributable to the hedged risk.

We use qualitative and quantitative methods to assess hedge effectiveness. Qualitative methods may include monitoring changes to terms and conditions and counterparty credit ratings. Quantitative methods may include statistical tests including regression analysis and minimum variance and dollar offset techniques.

Termination of Hedge Accounting. We prospectively discontinue hedge accounting when (1) the criteria to qualify for hedge accounting is no longer met, e.g., a derivative is determined to no longer be highly effective in offsetting the change in fair value or cash flows of a hedged item; (2) the derivative expires, is sold, terminated or exercised or (3) we remove the designation of the derivative being the hedging instrument for a fair value or cash flow hedge.

If it is determined that a derivative no longer qualifies as an effective hedge, the derivative will continue to be carried on the consolidated statements of financial position at its fair value, with changes in fair value recognized prospectively in net realized capital gains (losses). The asset or liability under a fair value hedge will no longer be adjusted for changes in fair value pursuant to hedging rules and the existing basis adjustment is amortized to the consolidated statements of operations line associated with the asset or liability. The component of AOCI related to discontinued cash flow hedges that are no longer highly effective is amortized to the consolidated statements of operations consistent with the net income impacts of the original hedged cash flows. If a cash flow hedge is discontinued because it is probable the hedged forecasted transaction will not occur, the deferred gain or loss is immediately reclassified from AOCI into net income.

Embedded Derivatives. We purchase and issue certain financial instruments and products that contain a derivative that is embedded in the financial instrument or product. We assess whether this embedded derivative is clearly and closely related to the asset or liability that serves as its host contract. If we deem that the embedded derivative's terms are not clearly and closely related to the host contract, and a separate instrument with the same terms would qualify as a derivative instrument, the derivative is bifurcated from that contract and held at fair value on the consolidated statements of financial position, with changes in fair value reported in net income.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Contractholder and Policyholder Liabilities

Contractholder and policyholder liabilities (contractholder funds, future policy benefits and claims and other policyholder funds) include reserves for investment contracts, individual and group annuities that provide periodic income payments, universal life insurance, variable universal life insurance, indexed universal life insurance, term life insurance, participating traditional individual life insurance, group dental and vision insurance, group critical illness, group accident, group short-term and long-term disability insurance, group life insurance, individual disability insurance and long-term care insurance. It also includes a provision for dividends on participating policies.

Investment contracts are contractholders' funds on deposit with us and generally include reserves for pension and annuity contracts. Reserves on investment contracts are equal to the cumulative deposits less any applicable charges and withdrawals plus credited interest. Reserves for universal life, variable universal life and indexed universal life insurance contracts are equal to cumulative deposits less charges plus credited interest, which represents the account balances that accrue to the benefit of the policyholders.

We hold additional reserves on certain long-duration contracts where benefit features result in gains in early years followed by losses in later years; universal life, variable universal life and indexed universal life insurance contracts that contain no lapse guarantee features; and annuities with guaranteed minimum death benefits.

Reserves for individual and group annuities that provide periodic income payments, nonparticipating term life insurance and disability income contracts are computed on a basis of assumed investment yield, mortality, morbidity and expenses, including a provision for adverse deviation, which generally varies by plan, year of issue and policy duration. Investment yield is based on our experience. Mortality, morbidity and withdrawal rate assumptions are based on our experience and are periodically reviewed against both industry standards and experience.

Reserves for participating life insurance contracts are based on the net level premium reserve for death and endowment policy benefits. This net level premium reserve is calculated based on dividend fund interest rates and mortality rates guaranteed in calculating the cash surrender values described in the contract.

Participating business represented approximately 6%, 7% and 7% of our life insurance in force and 23%, 26% and 29% of the number of life insurance policies in force as of December 31, 2019, 2018 and 2017, respectively. Participating business represented approximately 21%, 24% and 30% of life insurance premiums for the years ended December 31, 2019, 2018 and 2017, respectively. The amount of dividends to policyholders is declared annually by Principal Life's Board of Directors. The amount of dividends to be paid to policyholders is determined after consideration of several factors including interest, mortality, morbidity and other expense experience for the year and judgment as to the appropriate level of statutory surplus to be retained by Principal Life. At the end of the reporting period, Principal Life establishes a dividend liability for the pro rata portion of the dividends expected to be paid on or before the next policy anniversary date.

Some of our policies and contracts require payment of fees or other policyholder assessments in advance for services that will be rendered over the estimated lives of the policies and contracts. These payments are established as unearned revenue liabilities upon receipt and included in other policyholder funds in the consolidated statements of financial position. These unearned revenue reserves are amortized to net income over the estimated lives of these policies and contracts in relation to the emergence of EGPs.

Short-Duration Contracts

We include the following group products in our short-duration insurance contracts disclosures: long-term disability ("LTD"), group life waiver, dental, vision, short-term disability ("STD"), critical illness, accident and group life.

Future policy benefits and claims include reserves for group life and disability insurance that provide periodic income payments. These reserves are computed using assumptions of mortality, morbidity and investment performance. These assumptions are based on our experience, industry results, emerging trends and future expectations. Future policy benefits and claims also include reserves for incurred but unreported group disability, dental, vision, critical illness, accident and life insurance claims.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

We recognize claims costs in the period the service was provided to our policyholders. However, claims costs incurred in a particular period are not known with certainty until after we receive, process and pay the claims. We determine the amount of this liability using actuarial methods based on historical claim payment patterns as well as emerging cost trends, where applicable, to determine our estimate of claim liabilities.

We have defined claim frequency as follows for each short-duration product:

- LTD: Claim frequency is based on submitted reserve claim counts.
- Group Life Waiver: Claim frequency is based on submitted reserve claim counts, consistent with LTD.
- Dental and Vision: Claim frequency is based on the claim form, which may include one or more procedures.
- STD, Critical Illness and Accident: Claim frequency is based on submitted claims.
- Group Life: Claim frequency is based on submitted life claims (lives, not coverages).

We did not make any significant changes to our methodologies or assumptions used to calculate the liability for unpaid claims for short-duration contracts during 2019.

Liability for Unpaid Claims

The liability for unpaid claims for both long-duration and short-duration contracts is an estimate of the ultimate net cost of reported and unreported losses not yet settled. This liability is estimated using actuarial analyses and case basis evaluations. Although considerable variability is inherent in such estimates, we believe the liability for unpaid claims is adequate. These estimates are continually reviewed and, as adjustments to this liability become necessary, such adjustments are reflected in net income. Our liability for unpaid claims does not include any allocated claim adjustment expenses.

We incur claim adjustment expenses for both long-duration and short-duration contracts that cannot be allocated to a specific claim. Our claim adjustment expense liability is estimated using actuarial analyses based on historical trends of expenses and expected claim runoff patterns.

See Note 8, Insurance Liabilities, under the caption “Liability for Unpaid Claims” for further details.

Recognition of Premiums and Other Considerations, Fees and Other Revenues and Benefits

Products with fixed and guaranteed premiums and benefits consist principally of whole life and term life insurance policies and individual disability income. Premiums from these products are recognized as premium revenue when due. Related policy benefits and expenses for individual life products are associated with earned premiums and result in the recognition of profits over the expected term of the policies and contracts.

Immediate annuities with life contingencies include products with fixed and guaranteed annuity considerations and benefits and consist principally of group and individual single premium annuities with life contingencies. Annuity considerations from these products are recognized as premium revenue. However, the collection of these annuity considerations does not represent the completion of the earnings process, as we establish annuity reserves using estimates for mortality and investment assumptions, which include provision for adverse deviation as required by U.S. GAAP. We anticipate profits to emerge over the life of the annuity products as we earn investment income, pay benefits and release reserves.

Group life, dental, vision, critical illness, accident and disability premiums are generally recorded as premium revenue over the term of the coverage. Certain group contracts contain experience premium refund provisions based on a pre-defined formula that reflects their claim experience. Experience premium refunds reduce revenue over the term of the coverage and are adjusted to reflect current experience. Related policy benefits and expenses are associated with earned premiums and result in the recognition of profits over the term of the policies and contracts. Fees for contracts providing claim processing or other administrative services are recorded as revenue over the period the service is provided.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

Universal life-type policies are insurance contracts with terms that are not fixed. Amounts received as payments for such contracts are not reported as premium revenues. Revenues for universal life-type insurance contracts consist of policy charges for the cost of insurance, policy initiation and administration, surrender charges and other fees that have been assessed against policy account values and investment income. Policy benefits and claims that are charged to expense include interest credited to contracts and benefit claims incurred in the period in excess of related policy account balances.

Investment contracts do not subject us to significant risks arising from policyholder mortality or morbidity and consist primarily of guaranteed investment contracts (“GICs”), funding agreements and certain deferred annuities. Amounts received as payments for investment contracts are established as investment contract liability balances and are not reported as premium revenues. Revenues for investment contracts consist of investment income and policy administration charges. Investment contract benefits that are charged to expense include benefit claims incurred in the period in excess of related investment contract liability balances and interest credited to investment contract liability balances.

Fees and other revenues are earned for asset management, investment advisory and distribution services provided to retail and institutional clients based largely upon contractual rates applied to the specified amounts in the clients’ portfolios, which include various platforms such as mutual funds, collective investment trusts and business trusts. Additionally, fees and other revenues are earned for administrative services performed including recordkeeping, trust and custody and reporting services for retirement savings plans, insurance companies, endowments and other financial institutions and other products. Fees and other revenues received for performance of asset management and administrative services are recognized as revenue when earned, typically when the service is performed.

Fees for managing customers’ mandatory retirement savings accounts in Chile are collected with each monthly deposit made by our customers. If a customer stops contributing before retirement age, we collect no fees but services are still provided. We recognize revenue from these long-term service contracts as services are performed over the life of the contract.

Deferred Acquisition Costs

Incremental direct costs of contract acquisition as well as certain costs directly related to acquisition activities (underwriting, policy issuance and processing, medical and inspection and sales force contract selling) for the successful acquisition of new and renewal insurance policies and investment contract business are capitalized to the extent recoverable. Commissions and other incremental direct costs for the acquisition of long-term service contracts are also capitalized to the extent recoverable. Maintenance costs and acquisition costs that are not deferrable are charged to net income as incurred.

DAC for universal life-type insurance contracts and certain investment contracts are amortized over the expected lifetime of the contracts in relation to EGPs or, in certain circumstances, estimated gross revenues (“EGR”). This amortization is adjusted in the current period when EGPs or EGRs are revised. EGRs include similar assumptions as the revenue component of EGPs and the changes of future estimates and reflection of actual experience and market conditions is done in the same manner as EGPs.

For individual variable universal life insurance, individual variable annuities and group annuities that have separate account U.S. equity investment options, we utilize a mean reversion methodology (reversion to the mean assumption), a common industry practice, to determine the future domestic equity market growth rate assumption used for the calculation of EGPs.

DAC for participating life insurance policies are amortized in proportion to estimated gross margins (“EGM”) rather than EGPs. EGMs include similar assumption items as EGPs. We stopped selling participating business in the early 2000s. Some products allow for underwritten death benefit increases and cost of living adjustments, resulting in a small amount of new DAC each year, and the amortization schedules are modified as appropriate.

DAC for non-participating term life insurance and individual disability policies are amortized over the premium-paying period of the related policies using assumptions consistent with those used in computing policyholder liabilities. Once these assumptions are made for a given policy or group of policies, they will not be changed over the life of the policy unless a loss recognition event occurs.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

DAC on insurance policies and investment contracts are subject to recoverability testing at the time of policy issue and loss recognition testing on an annual basis, or when an event occurs that may warrant loss recognition. If loss recognition or impairment is necessary, DAC would be written off to the extent it is determined that future policy premiums and investment income or gross profits are not adequate to cover related losses and expenses.

DAC on short-duration group benefits policies are amortized over the estimated term of the underlying contracts.

Deferred Acquisition Costs on Internal Replacements

All insurance and investment contract modifications and replacements are reviewed to determine if the internal replacement results in a substantially changed contract. If so, the acquisition costs, sales inducements and unearned revenue associated with the new contract are deferred and amortized over the lifetime of the new contract. In addition, the existing DAC, sales inducement costs and unearned revenue balances associated with the replaced contract are written off. If an internal replacement results in a substantially unchanged contract, the acquisition costs, sales inducements and unearned revenue associated with the new contract are immediately recognized in the period incurred. In addition, the existing DAC, sales inducement costs or unearned revenue balance associated with the replaced contract is not written off, but instead is carried over to the new contract.

Long-Term Debt

Long-term debt includes notes payable, nonrecourse mortgages and other debt with a maturity date greater than one year at the date of issuance. Current maturities of long-term debt are classified as long-term debt in our consolidated statements of financial position. Long-term debt is primarily recorded at the unpaid principal balance, net of unamortized discount, premium and issuance costs.

Reinsurance

We enter into reinsurance agreements with other companies in the normal course of business in order to limit losses and minimize exposure to significant risks. We may assume reinsurance from or cede reinsurance to other companies. Assets and liabilities related to reinsurance ceded are reported on a gross basis. Premiums and expenses are reported net of reinsurance ceded. The cost of reinsurance related to long-duration contracts is accounted for over the life of the underlying reinsured policies using assumptions consistent with those used to account for the underlying policies. We are contingently liable with respect to reinsurance ceded to other companies in the event the reinsurer is unable to meet the obligations it has assumed. As of December 31, 2019 and 2018, we had \$465.5 million and \$450.6 million of net ceded reinsurance recoverables related to claims that have been received, respectively. As of December 31, 2019 and 2018, \$457.2 million, or 98%, and \$435.6 million, or 97%, were with our five largest ceded reinsurers, respectively. Our total amount recoverable from reinsurers includes net ceded reinsurance recoverables related to claims that have been received and reserves ceded to reinsurers; however, it does not reflect potentially offsetting impacts of collateral. As of December 31, 2019 and 2018, the total amount recoverable from reinsurers was \$961.4 million and \$920.8 million, respectively, and is recognized in premiums due and other receivables.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

The effects of reinsurance on premiums and other considerations and policy and contract benefits were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Premiums and other considerations:			
Direct	\$ 8,428.1	\$ 6,928.3	\$ 6,699.3
Assumed	1.6	1.7	1.9
Ceded	(563.1)	(520.4)	(483.8)
Net premiums and other considerations	<u>\$ 7,866.6</u>	<u>\$ 6,409.6</u>	<u>\$ 6,217.4</u>
Benefits, claims and settlement expenses:			
Direct	\$ 10,463.6	\$ 8,667.7	\$ 8,216.3
Assumed	23.1	24.9	27.7
Ceded	(580.9)	(500.1)	(421.4)
Net benefits, claims and settlement expenses	<u>\$ 9,905.8</u>	<u>\$ 8,192.5</u>	<u>\$ 7,822.6</u>

Separate Accounts

The separate accounts are legally segregated and are not subject to the claims that arise out of any of our other business. The client, rather than us, directs the investments and bears the investment risk of these funds. The separate account assets represent the fair value of funds that are separately administered by us for contracts with equity, real estate and fixed income investments and are presented as a summary total within the consolidated statements of financial position. An equivalent amount is reported as separate account liabilities, which represent the obligation to return the monies to the client. We receive fees for mortality, withdrawal and expense risks, as well as administrative, maintenance and investment advisory services that are included in the consolidated statements of operations. Net deposits, net investment income and realized and unrealized capital gains and losses of the separate accounts are not reflected in the consolidated statements of operations.

Separate account assets and separate account liabilities include certain international retirement accumulation products where the segregated funds and associated obligation to the client are consolidated within our financial statements. We have determined that summary totals are the most meaningful presentation for these funds.

As of December 31, 2019 and December 31, 2018, the separate accounts included a separate account valued at \$100.4 million and \$94.9 million, respectively, which primarily included shares of our stock that were allocated and issued to eligible participants of qualified employee benefit plans administered by us as part of the policy credits issued under our 2001 demutualization. These shares are included in both basic and diluted earnings per share calculations. In the consolidated statements of financial position, the separate account shares are recorded at fair value and are reported as separate account assets with a corresponding separate account liability. Changes in fair value of the separate account shares are reflected in both the separate account assets and separate account liabilities and do not impact our results of operations.

Income Taxes

We file a U.S. consolidated income tax return that includes all of our qualifying subsidiaries. In addition, we file income tax returns in all states and foreign jurisdictions in which we conduct business. Our policy of allocating income tax expenses and benefits to companies in the group is generally based upon pro rata contribution of taxable income or operating losses. We are taxed at corporate rates on taxable income based on existing tax laws. Current income taxes are charged or credited to net income based upon amounts estimated to be payable or recoverable as a result of taxable operations for the current year. Deferred income taxes are provided for the tax effect of temporary differences in the financial reporting and income tax bases of assets and liabilities, net operating loss carryforwards and tax credit carryforwards using enacted income tax rates and laws. The effect on deferred income tax assets and deferred income tax liabilities of a change in tax rates is recognized in net income in the period in which the change is enacted. Subsequent to a change in tax rates and laws, any stranded tax effects remaining in AOCI will be released only if an entire portfolio is liquidated, sold or extinguished.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

1. Nature of Operations and Significant Accounting Policies – (continued)

However, a specific exception to this rule was adopted effective January 1, 2018, to reclassify the stranded tax effects generated by U.S. tax reform from AOCI to retained earnings. Further details are included under the caption “Recent Accounting Pronouncements.”

Foreign Exchange

Assets and liabilities of our foreign subsidiaries and affiliates denominated in non-U.S. dollars, where the U.S. dollar is not the functional currency, are translated into U.S. dollar equivalents at the year-end spot foreign exchange rates. Resulting translation adjustments are reported as a component of stockholders' equity, along with any related hedge and tax effects. Revenues and expenses for these entities are translated at the average exchange rates. Revenue, expense and other foreign currency transaction and translation adjustments that affect cash flows are reported in net income, along with related hedge and tax effects.

Goodwill and Other Intangibles

Goodwill and other intangible assets include the cost of acquired subsidiaries in excess of the fair value of the net tangible assets recorded in connection with acquisitions. Goodwill and indefinite-lived intangible assets are not amortized. Rather, they are tested for impairment during the third quarter each year, or more frequently if events or changes in circumstances indicate that the asset might be impaired. Goodwill is tested at the reporting unit level, which is a business one level below the operating segment, if financial information is prepared and regularly reviewed by management at that level. Once goodwill has been assigned to a reporting unit, it is no longer associated with a particular acquisition; therefore, all of the activities within a reporting unit, whether acquired or organically grown, are available to support the goodwill value. Impairment testing for indefinite-lived intangible assets consists of a comparison of the fair value of the intangible asset with its carrying value.

Intangible assets with a finite useful life are amortized as related benefits emerge and are reviewed periodically for indicators of impairment in value. If facts and circumstances suggest possible impairment, the sum of the estimated undiscounted future cash flows expected to result from the use of the asset is compared to the current carrying value of the asset. If the undiscounted future cash flows are less than the carrying value, an impairment loss is recognized for the excess of the carrying amount of assets over their fair value.

Earnings Per Common Share

Basic earnings per common share is calculated by dividing net income available to common stockholders by the weighted-average number of common shares outstanding for the period and excludes the dilutive effect of equity awards. Diluted earnings per common share reflects the potential dilution that could occur if dilutive securities, such as options and non-vested stock grants, were exercised or resulted in the issuance of common stock.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

2. Goodwill and Other Intangible Assets

Goodwill

The changes in the carrying amount of goodwill reported in our segments were as follows:

	Retirement and Income Solutions	Principal Global Investors	Principal International	U.S. Insurance Solutions	Corporate	Consolidated
	<i>(in millions)</i>					
Balance as of January 1, 2018	\$ 57.4	\$ 247.3	\$ 707.5	\$ 56.6	\$ —	\$ 1,068.8
Goodwill from acquisitions (1)	—	65.0	46.8	—	2.1	113.9
Goodwill disposed (2)	—	—	(12.0)	—	—	(12.0)
Foreign currency	—	(5.0)	(65.7)	—	—	(70.7)
Balance as of December 31, 2018	57.4	307.3	676.6	56.6	2.1	1,100.0
Goodwill from acquisitions (3)	618.5	6.5	—	—	(1.1)	623.9
Foreign currency	—	1.5	(31.6)	—	—	(30.1)
Other (4)	—	2.2	(2.2)	—	—	—
Balance as of December 31, 2019	\$ 675.9	\$ 317.5	\$ 642.8	\$ 56.6	\$ 1.0	\$ 1,693.8

- (1) Relates to the acquisitions of: a) RobustWealth, a financial technology company, which is consolidated within our Corporate segment with the majority of the goodwill allocated to our Principal Global Investors segment; b) INTERNOS, a London-based European real estate investment manager that, upon acquisition, became Principal Real Estate Europe Limited and is consolidated within our Principal Global Investors segment; c) MetLife Afore, S.A. de C.V., which was MetLife, Inc.'s pension fund management business in Mexico and is consolidated within our Principal International segment.
- (2) Relates to sales of closed blocks of business in Mexico.
- (3) Relates to the acquisitions of: a) Wells Fargo Institutional Retirement & Trust business consolidated within our Retirement and Income Solutions segment; b) a consolidating interest in Finisterre Capital LLP within our Principal Global Investors segment for which we previously held an equity method interest; c) measurement period adjustments related to RobustWealth within our Principal Global Investors segment and Corporate segment.
- (4) Relates to the movement of our investment management company in Brazil from the Principal International segment to the Principal Global Investors segment.

On July 1, 2019, we completed the purchase of the Institutional Retirement & Trust business of Wells Fargo Bank, N.A. (the "Acquired Business"), which includes defined contribution, defined benefit, executive deferred compensation, employee stock ownership plans, institutional trust and custody, and institutional asset advisory businesses. The purchase price consisted of \$1.2 billion cash paid at closing, which was funded with available cash and debt financing. See "Note 9, Debt" for further information on the debt financing. An additional earn-out payment of up to \$150.0 million may be payable based upon the retention of fee revenue of the Acquired Business through December 31, 2020.

The fair value of the net assets acquired primarily relates to intangible assets. Of the acquired intangible assets, \$618.5 million was assigned to goodwill and is not subject to amortization. The goodwill is largely related to the opportunities to realize substantial revenue and cost synergies while achieving scale in operations.

Of the remaining acquired intangible assets, \$510.3 million was assigned to customer relationships, which are subject to amortization over a 23-year useful life, and \$35.4 million was assigned to technology, which is subject to amortization over a 6-year useful life.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

2. Goodwill and Other Intangible Assets – (continued)

Finite Lived Intangible Assets

Amortized intangible assets primarily relate to customer relationship intangibles associated with the Acquired Business and previous acquisitions in Chile, Mexico and Hong Kong. The finite lived intangible assets that continue to be subject to amortization over a weighted average remaining expected life of 18 years were as follows:

	December 31,	
	2019	2018
	<i>(in millions)</i>	
Gross carrying value	\$ 1,346.3	\$ 810.2
Accumulated amortization	343.2	288.4
Net carrying value	<u>\$ 1,003.1</u>	<u>\$ 521.8</u>

The amortization expense for intangible assets with finite useful lives was \$62.8 million, \$53.9 million and \$45.4 million for 2019, 2018 and 2017, respectively. As of December 31, 2019, the estimated amortization expense for the next five years is as follows (in millions):

Year ending December 31:		
2020	\$	74.5
2021		73.2
2022		72.4
2023		70.2
2024		69.0

Indefinite Lived Intangible Assets

The net carrying amount of unamortized indefinite lived intangible assets was \$783.6 million and \$793.3 million as of December 31, 2019 and 2018, respectively. As of both December 31, 2019 and 2018, \$608.0 million relates to investment management contracts associated with our acquisition of WM Advisors, Inc. in 2006. The remaining balance primarily relates to the trade name intangible associated with our acquisition of Administradora de Fondos de Pensiones Cuprum S.A. in 2013.

3. Variable Interest Entities

We have relationships with various types of entities which may be VIEs. Certain VIEs are consolidated in our financial results. See Note 1, Nature of Operations and Significant Accounting Policies, under the caption “Consolidation” for further details of our consolidation accounting policies. We did not provide financial or other support to investees designated as VIEs for the periods ended December 31, 2019 and December 31, 2018.

Consolidated Variable Interest Entities

Grantor Trust

We contributed undated subordinated floating rate notes to a grantor trust. The trust separated its cash flows by issuing an interest-only certificate and a residual certificate related to each note contributed. Each interest-only certificate entitles the holder to interest on the stated note for a specified term, while the residual certificate entitles the holder to interest payments subsequent to the term of the interest-only certificate and to all principal payments. We retained the interest-only certificates and the residual certificates were subsequently sold to third parties. We determined the grantor trust is a VIE due to insufficient equity to sustain it. We determined we are the primary beneficiary as a result of our contribution of securities into the trust and our significant continuing interest in the trust.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

3. Variable Interest Entities – (continued)

Commercial Mortgage-Backed Securities

We sold commercial mortgage loans to a real estate mortgage investment conduit trust. The trust issued various commercial mortgage-backed securities (“CMBS”) certificates using the cash flows of the underlying commercial mortgage loans it purchased. This was considered a VIE due to insufficient equity to sustain itself. We determined we were the primary beneficiary as we retained the special servicing role for the assets within the trust as well as the ownership of the bond class that controls the unilateral kick-out rights of the special servicer. The trust was unwound in the third quarter of 2019.

Mandatory Retirement Savings Funds

We hold an equity interest in Chilean mandatory privatized social security funds in which we provide asset management services. We determined the mandatory privatized social security funds, which also include contributions for voluntary pension savings, voluntary non-pension savings and compensation savings accounts, are VIEs. This is because the equity holders as a group lack the power, due to voting rights or similar rights, to direct the activities of the entity that most significantly impact the entity’s economic performance and also because equity investors are protected from below-average market investment returns relative to the industry’s return, due to a regulatory guarantee that we provide. Further we concluded we are the primary beneficiary through our power to make decisions and our significant variable interest in the funds. The purpose of the funds, which reside in legally segregated entities, is to provide long-term retirement savings. The obligation to the customer is directly related to the assets held in the funds and, as such, we present the assets as separate account assets and the obligation as separate account liabilities within our consolidated statements of financial position.

Principal International Hong Kong offers retirement pension schemes in which we provide trustee, administration and asset management services to employers and employees under the Hong Kong Mandatory Provident Fund and Occupational Retirement Schemes Ordinance pension schemes. Each pension scheme has various guaranteed and non-guaranteed constituent funds, or investment options, in which customers can invest their money. The guaranteed funds provide either a guaranteed rate of return to the customer or a minimum guarantee on withdrawals under certain qualifying events. We determined the guaranteed funds are VIEs due to the fact the equity holders, as a group, lack the obligation to absorb expected losses due to the guarantee we provide. We concluded we are the primary beneficiary because we have the power to make decisions and to receive benefits and the obligation to absorb losses that could be potentially significant to the VIE. Therefore, we consolidate the underlying assets and liabilities of the funds and present as separate accounts or within the general account, depending on the terms of the guarantee.

Real Estate

We invest in several real estate limited partnerships and limited liability companies. The entities invest in real estate properties. Certain of these entities are VIEs based on the combination of our significant economic interest and related voting rights. We determined we are the primary beneficiary as a result of our power to control the entities through our significant ownership. Due to the nature of these real estate investments, the investment balance will fluctuate as we purchase and sell interests in the entities and as capital expenditures are made to improve the underlying real estate.

Sponsored Investment Funds

We sponsor and invest in certain investment funds for which we provide asset management services. Although our asset management fee is commensurate with the services provided and consistent with fees for similar services negotiated at arms-length, we have a variable interest for funds where our other interests are more than insignificant. The funds are VIEs as the equity holders lack power through voting rights to direct the activities of the entity that most significantly impact its economic performance. We determined we are the primary beneficiary of the VIEs where our interest in the entity is more than insignificant and we are the asset manager.

We also invest in certain series of another investment fund. These series are VIEs as the equity holders of each series lack the power to direct the most significant activities of the VIE. We determined we are the primary beneficiary of these series as our interest is more than insignificant and collectively we have the power to direct the most significant activities of the fund.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

3. Variable Interest Entities – (continued)

Assets and Liabilities of Consolidated Variable Interest Entities

The carrying amounts of our consolidated VIE assets, which can only be used to settle obligations of consolidated VIEs, and liabilities of consolidated VIEs for which creditors do not have recourse were as follows:

	December 31, 2019		December 31, 2018	
	Total assets	Total liabilities	Total assets	Total liabilities
	<i>(in millions)</i>			
Grantor trust (1)	\$ 99.9	\$ 98.6	\$ 95.0	\$ 89.4
CMBS	—	—	6.4	—
Mandatory retirement savings funds (2)	39,891.1	39,524.9	37,915.7	37,579.3
Real estate (3)	479.7	88.0	379.2	70.6
Sponsored investment funds (4)	331.4	2.2	526.5	3.6
Total	<u>\$ 40,802.1</u>	<u>\$ 39,713.7</u>	<u>\$ 38,922.8</u>	<u>\$ 37,742.9</u>

- (1) The assets of the grantor trust are primarily fixed maturities, available-for-sale. The liabilities are primarily other liabilities that reflect an embedded derivative of the forecasted transaction to deliver the underlying securities.
- (2) The assets of the mandatory retirement savings funds include separate account assets and equity securities. The liabilities include separate account liabilities and contractholder funds.
- (3) The assets of the real estate VIEs primarily include real estate and cash. Liabilities primarily include long-term debt and other liabilities.
- (4) The assets of sponsored investment funds are primarily fixed maturities and equity securities, certain of which are reported with other investments, and cash. The consolidated statements of financial position included a \$215.4 million and \$325.7 million redeemable noncontrolling interest for sponsored investment funds as of December 31, 2019 and December 31, 2018, respectively.

Unconsolidated Variable Interest Entities

We hold a variable interest in a number of VIEs where we are not the primary beneficiary. Our investments in these VIEs are reported in fixed maturities, available-for-sale; fixed maturities, trading; equity securities and other investments in the consolidated statements of financial position and are described below.

Unconsolidated VIEs include certain CMBS, residential mortgage-backed pass-through securities ("RMBS") and other ABS. All of these entities were deemed VIEs because the equity within these entities is insufficient to sustain them. We determined we are not the primary beneficiary in the entities within these categories of investments. This determination was based primarily on the fact we do not own the class of security that controls the unilateral right to replace the special servicer or equivalent function.

We invest in cash collateralized debt obligations, collateralized bond obligations, collateralized loan obligations and other collateralized structures, which are VIEs due to insufficient equity to sustain the entities. We have determined we are not the primary beneficiary of these entities primarily because we do not control the economic performance of the entities and were not involved with the design of the entities or because we do not have a potentially significant variable interest in the entities for which we are the asset manager.

We have invested in various VIE trusts and similar entities as a debt holder. Most of these entities are classified as VIEs due to insufficient equity to sustain them. In addition, we have an entity classified as a VIE based on the combination of our significant economic interest and lack of voting rights. We have determined we are not the primary beneficiary primarily because we do not control the economic performance of the entities and were not involved with the design of the entities.

We have invested in partnerships and other funds, which are classified as VIEs. The entities are VIEs as equity holders lack the power to control the most significant activities of the entities because the equity holders do not have either the ability by a simple majority to exercise substantive kick-out rights or substantive participating rights. We have determined we are not the primary beneficiary because we do not have the power to direct the most significant activities of the entities.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

3. Variable Interest Entities – (continued)

As previously discussed, we sponsor, invest in and have other interests in certain investment funds that are VIEs. We determined we are not the primary beneficiary of the VIEs for which we are the asset manager but do not have a potentially significant variable interest in the funds.

We hold an equity interest in Mexican mandatory privatized social security funds in which we provide asset management services. Our equity interest in the funds is considered a variable interest. We concluded the funds are VIEs because the equity holders as a group lack decision-making ability through their voting rights. We are not the primary beneficiary of the VIEs because although we, as the asset manager, have the power to direct the activities of the VIEs, we do not have a potentially significant variable interest in the funds.

The carrying value and maximum loss exposure for our unconsolidated VIEs were as follows:

	<u>Asset carrying value</u>	<u>Maximum exposure to loss (1)</u>
	<i>(in millions)</i>	
December 31, 2019		
Fixed maturities, available-for-sale:		
Corporate	\$ 238.2	\$ 225.7
Residential mortgage-backed pass-through securities	2,982.4	2,913.9
Commercial mortgage-backed securities	4,850.2	4,746.6
Collateralized debt obligations (2)	3,215.3	3,226.7
Other debt obligations	8,191.1	8,076.4
Fixed maturities, trading:		
Residential mortgage-backed pass-through securities	282.3	282.3
Commercial mortgage-backed securities	28.2	28.2
Collateralized debt obligations (2)	20.9	20.9
Other debt obligations	13.2	13.2
Equity securities	123.2	123.2
Other investments:		
Other limited partnership and fund interests (3)	911.9	1,467.0
December 31, 2018		
Fixed maturities, available-for-sale:		
Corporate	\$ 235.3	\$ 222.6
Residential mortgage-backed pass-through securities	2,460.6	2,488.5
Commercial mortgage-backed securities	3,945.6	4,023.1
Collateralized debt obligations (2)	2,420.8	2,451.3
Other debt obligations	7,153.2	7,196.6
Fixed maturities, trading:		
Residential mortgage-backed pass-through securities	322.6	322.6
Commercial mortgage-backed securities	13.8	13.8
Collateralized debt obligations (2)	11.8	11.8
Other debt obligations	9.7	9.7
Equity securities	103.9	103.9
Other investments:		
Other limited partnership and fund interests (3)	737.5	1,432.2

- (1) Our risk of loss is limited to our initial investment measured at amortized cost for fixed maturities, available-for-sale. Our risk of loss is limited to our investment measured at fair value for our fixed maturities, trading and equity securities. Our risk of loss is limited to our carrying value plus any unfunded commitments and/or guarantees and similar provisions for our other investments. Unfunded commitments are not liabilities on our consolidated statements of financial position because we are only required to fund additional equity when called upon to do so by the general partner or investment manager.
- (2) Primarily consists of collateralized loan obligations backed by secured corporate loans.
- (3) As of December 31, 2019 and December 31, 2018, the maximum exposure to loss for other limited partnership and fund interests includes \$129.1 million and \$132.2 million, respectively, of debt within certain of our managed international real estate funds that is fully secured by assets whose value exceeds the amount of the debt, but also includes recourse to the investment manager.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

3. Variable Interest Entities – (continued)

Money Market Funds

We are the investment manager for certain money market mutual funds. These types of funds are exempt from assessment under any consolidation model due to a scope exception for money market funds registered under Rule 2a-7 of the Investment Company Act of 1940 or similar funds. As of December 31, 2019 and December 31, 2018, money market mutual funds we manage held \$4.0 billion and \$3.0 billion in total assets, respectively. We have no contractual obligation to contribute to these funds; however, we provide support through the waiver of fees and through expense reimbursements. The amount of fees waived and expenses reimbursed was insignificant.

4. Investments

Fixed Maturities and Equity Securities

The amortized cost, gross unrealized gains and losses, other-than-temporary impairments in AOCI and fair value of available-for-sale securities were as follows:

	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value	Other-than- temporary impairments in AOCI (1)
	<i>(in millions)</i>				
December 31, 2019					
Fixed maturities, available-for-sale:					
U.S. government and agencies	\$ 1,627.0	\$ 100.2	\$ 3.0	\$ 1,724.2	\$ —
Non-U.S. governments	852.3	144.1	0.2	996.2	—
States and political subdivisions	6,857.1	644.5	11.6	7,490.0	—
Corporate	36,993.1	3,706.5	52.2	40,647.4	—
Residential mortgage-backed pass-through securities	2,913.9	72.3	3.8	2,982.4	—
Commercial mortgage-backed securities	4,746.6	127.6	24.0	4,850.2	15.8
Collateralized debt obligations (2)	3,226.7	2.9	14.3	3,215.3	0.9
Other debt obligations	8,085.8	129.6	14.9	8,200.5	31.7
Total fixed maturities, available-for-sale	<u>\$ 65,302.5</u>	<u>\$ 4,927.7</u>	<u>\$ 124.0</u>	<u>\$ 70,106.2</u>	<u>\$ 48.4</u>
December 31, 2018					
Fixed maturities, available-for-sale:					
U.S. government and agencies	\$ 1,441.6	\$ 16.4	\$ 17.0	\$ 1,441.0	\$ —
Non-U.S. governments	833.4	71.7	14.6	890.5	—
States and political subdivisions	6,125.0	196.0	95.3	6,225.7	—
Corporate	35,134.6	1,249.9	845.2	35,539.3	—
Residential mortgage-backed pass-through securities	2,488.5	21.9	49.8	2,460.6	—
Commercial mortgage-backed securities	4,023.1	17.1	94.6	3,945.6	16.3
Collateralized debt obligations (2)	2,451.3	—	30.5	2,420.8	1.2
Other debt obligations	7,228.3	39.4	82.7	7,185.0	36.1
Total fixed maturities, available-for-sale	<u>\$ 59,725.8</u>	<u>\$ 1,612.4</u>	<u>\$ 1,229.7</u>	<u>\$ 60,108.5</u>	<u>\$ 53.6</u>

- (1) Excludes \$62.3 million and \$64.2 million as of December 31, 2019 and December 31, 2018, respectively, of net unrealized gains on impaired fixed maturities, available-for-sale related to changes in fair value subsequent to the impairment date, which are included in gross unrealized gains and gross unrealized losses.
- (2) Primarily consists of collateralized loan obligations backed by secured corporate loans.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

The amortized cost and fair value of fixed maturities, available-for-sale as of December 31, 2019, by expected maturity, were as follows:

	<u>Amortized cost</u>	<u>Fair value</u>
	<i>(in millions)</i>	
Due in one year or less	\$ 2,138.3	\$ 2,154.0
Due after one year through five years	9,955.3	10,319.2
Due after five years through ten years	12,080.0	12,894.4
Due after ten years	22,155.9	25,490.2
Subtotal	<u>46,329.5</u>	<u>50,857.8</u>
Mortgage-backed and other asset-backed securities	18,973.0	19,248.4
Total	<u>\$ 65,302.5</u>	<u>\$ 70,106.2</u>

Actual maturities may differ because borrowers may have the right to call or prepay obligations. Our portfolio is diversified by industry, issuer and asset class. Credit concentrations are managed to established limits.

Net Investment Income

Major components of net investment income were as follows:

	<u>For the year ended December 31,</u>		
	<u>2019</u>	<u>2018</u>	<u>2017</u>
	<i>(in millions)</i>		
Fixed maturities, available-for-sale (1)	\$ 2,606.0	\$ 2,479.9	\$ 2,342.3
Fixed maturities, trading	23.8	26.4	12.6
Equity securities, available-for-sale	—	—	21.7
Equity securities, trading	—	—	46.1
Equity securities	110.5	38.8	—
Mortgage loans	707.0	641.4	605.9
Real estate	191.1	158.8	129.4
Policy loans	44.0	45.0	45.6
Cash and cash equivalents	65.3	56.2	28.6
Derivatives (1)	(2.0)	0.1	(3.2)
Other	370.8	285.0	319.6
Total	<u>4,116.5</u>	<u>3,731.6</u>	<u>3,548.6</u>
Investment expenses	<u>(118.1)</u>	<u>(102.4)</u>	<u>(89.3)</u>
Net investment income	<u>\$ 3,998.4</u>	<u>\$ 3,629.2</u>	<u>\$ 3,459.3</u>

- (1) Upon adoption of authoritative guidance effective January 1, 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships are reported in net investment income with the earnings effect of fixed maturities, available-for-sale. Prior to 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships were reported in net realized capital gains (losses). See Note 5, Derivative Financial Instruments, for further details.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Net Realized Capital Gains and Losses

Major components of net realized capital gains (losses) on investments were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Fixed maturities, available-for-sale:			
Gross gains	\$ 15.5	\$ 40.2	\$ 14.7
Gross losses	(15.3)	(74.8)	(27.2)
Net impairment losses	(43.5)	(29.1)	(81.7)
Hedging, net (1)	(9.3)	(39.6)	(28.5)
Fixed maturities, trading (2)	43.0	(9.0)	(8.0)
Equity securities, available-for-sale:			
Gross gains	—	—	0.2
Net impairment losses	—	—	(0.1)
Equity securities, trading (3)	—	—	65.0
Equity securities (4)	84.5	(17.7)	—
Mortgage loans	3.0	6.2	9.0
Derivatives (1)	(120.3)	11.7	(149.8)
Other (5)	(10.4)	36.7	730.6
Net realized capital gains (losses)	\$ (52.8)	\$ (75.4)	\$ 524.2

- (1) Upon adoption of authoritative guidance effective January 1, 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships are reported in net investment income with the earnings effect of fixed maturities, available-for-sale. Prior to 2019, the change in fair value of fixed maturities, available-for-sale and the change in fair value of derivative hedging instruments in fair value hedging relationships were reported in net realized capital gains (losses). See Note 5, Derivative Financial Instruments, for further details. Gains (losses) for fixed maturities, available-for-sale related to terminated cash flow hedges continue to be reflected in net realized capital gains (losses).
- (2) Unrealized gains (losses) on fixed maturities, trading still held at the reporting date were \$32.8 million, \$(12.2) million and \$(7.5) million for the years ended December 31, 2019, 2018 and 2017, respectively.
- (3) Unrealized gains on equity securities, trading still held at the reporting date were \$45.3 million for the year ended December 31, 2017. This excludes \$34.9 million of unrealized gains on equity securities, trading still held at the reporting date for the year ended December 31, 2017 that were reported in net investment income.
- (4) Unrealized gains (losses) on equity securities still held at the reporting date were \$61.6 million and \$(39.9) million for the years ended December 31, 2019 and 2018, respectively. This excludes \$66.9 million and \$4.9 million of unrealized gains on equity securities still held at the reporting date for the years ended December 31, 2019 and 2018, respectively, that were reported in net investment income.
- (5) Further details relating to other gains in 2017 are included under the caption "Real Estate Transactions."

Proceeds from sales of investments (excluding call and maturity proceeds) in fixed maturities, available-for-sale were \$1,654.8 million, \$3,067.2 million and \$1,345.8 million in 2019, 2018 and 2017, respectively.

Other-Than-Temporary Impairments

We have a process in place to identify fixed maturity securities that could potentially have an impairment that is other than temporary. Prior to 2018, we also used this process to assess equity securities for impairment. This process involves monitoring market events that could impact issuers' credit ratings, business climate, management changes, litigation and government actions and other similar factors. This process also involves monitoring late payments, pricing levels, downgrades by rating agencies, key financial ratios, financial statements, revenue forecasts and cash flow projections as indicators of credit issues.

Each reporting period, all securities are reviewed to determine whether an other-than-temporary decline in value exists and whether losses should be recognized. We consider relevant facts and circumstances in evaluating whether a credit or interest rate related impairment of a security is other than temporary.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Relevant facts and circumstances considered include: (1) the extent and length of time the fair value has been below cost; (2) the reasons for the decline in value; (3) the financial position and access to capital of the issuer, including the current and future impact of any specific events; (4) for structured securities, the adequacy of the expected cash flows; (5) our intent to sell a security or whether it is more likely than not we will be required to sell the security before the recovery of its amortized cost which, in some cases, may extend to maturity and (6) for equity securities, our ability and intent to hold the security for a period of time that allows for the recovery in value. To the extent we determine a security is deemed to be other than temporarily impaired, an impairment loss is recognized.

The way in which impairment losses on fixed maturities are recognized in the financial statements is dependent on the facts and circumstances related to the specific security. If we intend to sell a security or it is more likely than not that we would be required to sell a security before the recovery of its amortized cost, we recognize an other-than-temporary impairment in net income for the difference between amortized cost and fair value. If we do not expect to recover the amortized cost basis, we do not plan to sell the security and if it is not more likely than not that we would be required to sell a security before the recovery of its amortized cost, the recognition of the other-than-temporary impairment is bifurcated. We recognize the credit loss portion in net income and the noncredit loss portion in OCI (“bifurcated OTTI”). Prior to 2018, impairment losses on equity securities were recognized in net income and were measured as the difference between amortized cost and fair value.

Total other-than-temporary impairment losses, net of recoveries from the sale of previously impaired securities, were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Fixed maturities, available-for-sale	\$ (38.3)	\$ 10.6	\$ (28.6)
Equity securities, available-for-sale	—	—	(0.1)
Total other-than-temporary impairment losses, net of recoveries from the sale of previously impaired securities	<u>(38.3)</u>	<u>10.6</u>	<u>(28.7)</u>
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from OCI (1)	(5.2)	(39.7)	(53.1)
Net impairment losses on available-for-sale securities	<u>\$ (43.5)</u>	<u>\$ (29.1)</u>	<u>\$ (81.8)</u>

- (1) Represents the net impact of (a) gains resulting from reclassification of noncredit impairment losses for fixed maturities with bifurcated OTTI from net realized capital gains (losses) to OCI and (b) losses resulting from reclassification of previously recognized noncredit impairment losses from OCI to net realized capital gains (losses) for fixed maturities with bifurcated OTTI that had additional credit losses or fixed maturities that previously had bifurcated OTTI that have now been sold or are intended to be sold.

We estimate the amount of the credit loss component of a fixed maturity security impairment as the difference between amortized cost and the present value of the expected cash flows of the security. The present value is determined using the best estimate cash flows discounted at the effective interest rate implicit to the security at the date of purchase or the current yield to accrete an asset-backed or floating rate security. The methodology and assumptions for establishing the best estimate cash flows vary depending on the type of security. The ABS cash flow estimates are based on security specific facts and circumstances that may include collateral characteristics, expectations of delinquency and default rates, loss severity and prepayment speeds and structural support, including subordination and guarantees. The corporate security cash flow estimates are derived from scenario-based outcomes of expected corporate restructurings or liquidations using bond specific facts and circumstances including timing, security interests and loss severity.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

The following table provides a rollforward of accumulated credit losses for fixed maturities with bifurcated credit losses. The purpose of the table is to provide detail of (1) additions to the bifurcated credit loss amounts recognized in net realized capital gains (losses) during the period and (2) decrements for previously recognized bifurcated credit losses where the loss is no longer bifurcated and/or there has been a positive change in expected cash flows or accretion of the bifurcated credit loss amount.

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Beginning balance	\$ (117.5)	\$ (124.3)	\$ (139.9)
Credit losses for which an other-than-temporary impairment was not previously recognized	(6.8)	(11.3)	(15.0)
Credit losses for which an other-than-temporary impairment was previously recognized	(11.8)	(20.0)	(42.5)
Reduction for credit losses previously recognized on fixed maturities now sold, paid down or intended to be sold	54.3	29.5	63.3
Net reduction for positive changes in cash flows expected to be collected and amortization (1)	0.8	8.6	10.0
Foreign currency translation adjustment	—	—	(0.2)
Ending balance	<u>\$ (81.0)</u>	<u>\$ (117.5)</u>	<u>\$ (124.3)</u>

(1) Amounts are recognized in net investment income.

Gross Unrealized Losses for Available-for-Sale Securities

For available-for-sale securities with unrealized losses, including other-than-temporary impairment losses reported in OCI, the gross unrealized losses and fair value, aggregated by investment category and length of time that individual securities have been in a continuous unrealized loss position were as follows:

	December 31, 2019					
	Less than twelve months		Greater than or equal to twelve months		Total	
	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses
	<i>(in millions)</i>					
Fixed maturities, available-for-sale:						
U.S. government and agencies	\$ 100.0	\$ 1.9	\$ 74.2	\$ 1.1	\$ 174.2	\$ 3.0
Non-U.S. governments	17.6	0.2	12.4	—	30.0	0.2
States and political subdivisions	559.9	11.2	86.3	0.4	646.2	11.6
Corporate	1,041.5	27.8	394.7	24.4	1,436.2	52.2
Residential mortgage-backed pass-through securities	429.6	1.4	237.3	2.4	666.9	3.8
Commercial mortgage-backed securities	829.3	9.2	268.5	14.8	1,097.8	24.0
Collateralized debt obligations (1)	639.4	1.8	1,447.8	12.5	2,087.2	14.3
Other debt obligations	1,772.8	9.5	613.7	5.4	2,386.5	14.9
Total fixed maturities, available-for-sale	<u>\$ 5,390.1</u>	<u>\$ 63.0</u>	<u>\$ 3,134.9</u>	<u>\$ 61.0</u>	<u>\$ 8,525.0</u>	<u>\$ 124.0</u>

(1) Primarily consists of collateralized loan obligations backed by secured corporate loans.

Of the total amounts, Principal Life's consolidated portfolio represented \$8,380.7 million in available-for-sale fixed maturities with gross unrealized losses of \$103.9 million. Of the available-for-sale fixed maturities within Principal Life's consolidated portfolio in a gross unrealized loss position, 97% were investment grade (rated AAA through BBB-) with an average price of 99 (carrying value/amortized cost) as of December 31, 2019. Gross unrealized losses in our fixed maturities portfolio decreased during the year ended December 31, 2019, primarily due to a decrease in interest rates and tightening of credit spreads.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

4. Investments – (continued)

For those securities that had been in a continuous unrealized loss position for less than twelve months, Principal Life's consolidated portfolio held 882 securities with a carrying value of \$5,302.7 million and unrealized losses of \$44.0 million reflecting an average price of 99 as of December 31, 2019. Of this portfolio, 98% was investment grade (rated AAA through BBB-) as of December 31, 2019, with associated unrealized losses of \$43.1 million. The unrealized losses on these securities can primarily be attributed to changes in market interest rates and changes in credit spreads since the securities were acquired.

For those securities that had been in a continuous unrealized loss position greater than or equal to twelve months, Principal Life's consolidated portfolio held 502 securities with a carrying value of \$3,078.0 million and unrealized losses of \$59.9 million. The average credit rating of this portfolio was AA+ with an average price of 98 as of December 31, 2019. Of the \$59.9 million in unrealized losses, the corporate sector accounts for \$23.6 million in unrealized losses with an average price of 94 and an average credit rating of BBB-. The remaining unrealized losses also include \$14.6 million within the commercial mortgage-backed securities sector with an average price of 95 and an average credit rating of AA+. The unrealized losses on these securities can primarily be attributed to changes in market interest rates and changes in credit spreads since the securities were acquired.

Because we expected to recover our amortized cost, it was not our intent to sell the fixed maturity available-for-sale securities with unrealized losses and it was not more likely than not that we would be required to sell these securities before recovery of the amortized cost, which may be at maturity, we did not consider these investments to be other-than-temporarily impaired as of December 31, 2019.

	December 31, 2018					
	Less than twelve months		Greater than or equal to twelve months		Total	
	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses
	<i>(in millions)</i>					
Fixed maturities, available-for-sale:						
U.S. government and agencies	\$ 101.8	\$ 1.6	\$ 500.3	\$ 15.4	\$ 602.1	\$ 17.0
Non-U.S. governments	210.2	4.7	191.5	9.9	401.7	14.6
States and political subdivisions	1,359.9	33.9	1,590.3	61.4	2,950.2	95.3
Corporate	13,198.4	476.0	6,865.0	369.2	20,063.4	845.2
Residential mortgage-backed pass-through securities	236.7	1.0	1,410.2	48.8	1,646.9	49.8
Commercial mortgage-backed securities	790.3	11.6	2,223.2	83.0	3,013.5	94.6
Collateralized debt obligations (1)	2,233.3	24.0	162.6	6.5	2,395.9	30.5
Other debt obligations	985.5	4.9	3,665.1	77.8	4,650.6	82.7
Total fixed maturities, available-for-sale	<u>\$ 19,116.1</u>	<u>\$ 557.7</u>	<u>\$ 16,608.2</u>	<u>\$ 672.0</u>	<u>\$ 35,724.3</u>	<u>\$ 1,229.7</u>

(1) Primarily consists of collateralized loan obligations backed by secured corporate loans.

Of the total amounts, Principal Life's consolidated portfolio represented \$35,051.9 million in available-for-sale fixed maturities with gross unrealized losses of \$1,202.9 million. Of the available-for-sale fixed maturities within Principal Life's consolidated portfolio in a gross unrealized loss position, 95% were investment grade (rated AAA through BBB-) with an average price of 97 (carrying value/amortized cost) as of December 31, 2018. Gross unrealized losses in our fixed maturities portfolio increased during the year ended December 31, 2018, primarily due to widening of credit spreads and an increase in interest rates.

For those securities that had been in a continuous unrealized loss position for less than twelve months, Principal Life's consolidated portfolio held 2,076 securities with a carrying value of \$18,764.0 million and unrealized losses of \$541.3 million reflecting an average price of 97 as of December 31, 2018. Of this portfolio, 92% was investment grade (rated AAA through BBB-) as of December 31, 2018, with associated unrealized losses of \$473.7 million. The unrealized losses on these securities can primarily be attributed to changes in market interest rates and changes in credit spreads since the securities were acquired.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

4. Investments – (continued)

For those securities that had been in a continuous unrealized loss position greater than or equal to twelve months, Principal Life's consolidated portfolio held 2,335 securities with a carrying value of \$16,287.9 million and unrealized losses of \$661.6 million. The average credit rating of this portfolio was AA- with an average price of 96 as of December 31, 2018. Of the \$661.6 million in unrealized losses, the corporate sector accounts for \$360.4 million in unrealized losses with an average price of 95 and an average credit rating of A-. The remaining unrealized losses also include \$82.2 million within the commercial mortgage-backed securities sector with an average price of 96 and an average credit rating of AA+. The unrealized losses on these securities can primarily be attributed to changes in market interest rates and changes in credit spreads since the securities were acquired.

Because we expected to recover our amortized cost, it was not our intent to sell the fixed maturity available-for-sale securities with unrealized losses and it was not more likely than not that we would be required to sell these securities before recovery of the amortized cost, which may be at maturity, we did not consider these investments to be other-than-temporarily impaired as of December 31, 2018.

Net Unrealized Gains and Losses on Available-for-Sale Securities and Derivative Instruments

The net unrealized gains and losses on investments in available-for-sale securities, the noncredit component of impairment losses on fixed maturities available-for-sale and the net unrealized gains and losses on derivative instruments in cash flow hedge relationships are reported as separate components of stockholders' equity. The cumulative amount of net unrealized gains and losses on available-for-sale securities and derivative instruments in cash flow hedge relationships net of adjustments related to DAC and related actuarial balances, policyholder liabilities, noncontrolling interest and applicable income taxes was as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
Net unrealized gains on fixed maturities, available-for-sale (1)	\$ 4,834.2	\$ 400.8
Noncredit component of impairment losses on fixed maturities, available-for-sale	(48.4)	(53.6)
Net unrealized gains on derivative instruments	94.1	118.5
Adjustments for assumed changes in amortization patterns	(261.0)	30.3
Adjustments for assumed changes in policyholder liabilities	(1,133.5)	(293.7)
Net unrealized gains on other investments and noncontrolling interest adjustments	96.8	68.8
Provision for deferred income taxes	(766.9)	(63.8)
Net unrealized gains on available-for-sale securities and derivative instruments	<u>\$ 2,815.3</u>	<u>\$ 207.3</u>

(1) Excludes net unrealized gains (losses) on fixed maturities, available-for-sale included in fair value hedging relationships.

Mortgage Loans

Mortgage loans consist of commercial and residential mortgage loans. We evaluate risks inherent in our commercial mortgage loans in two classes: (1) brick and mortar property loans, including mezzanine loans, where we analyze the property's rent payments as support for the loan, and (2) credit tenant loans ("CTL"), where we rely on the credit analysis of the tenant for the repayment of the loan. We evaluate risks inherent in our residential mortgage loan portfolio in two classes: (1) first lien mortgages and (2) home equity mortgages. The carrying amount of our mortgage loan portfolio was as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
Commercial mortgage loans	\$ 15,017.2	\$ 13,996.3
Residential mortgage loans	1,496.7	1,368.0
Total amortized cost	<u>16,513.9</u>	<u>15,364.3</u>
Valuation allowance	(27.0)	(27.4)
Total carrying value	<u>\$ 16,486.9</u>	<u>\$ 15,336.9</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

We periodically purchase mortgage loans as well as sell mortgage loans we have originated. Mortgage loans purchased and sold were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Commercial mortgage loans:			
Purchased	\$ 200.5	\$ 127.5	\$ 144.2
Sold	1.6	2.2	28.9
Residential mortgage loans:			
Purchased	489.2	394.2	346.0
Sold	70.7	80.3	152.2

Our commercial mortgage loan portfolio consists primarily of non-recourse, fixed rate mortgages on stabilized properties. Our commercial mortgage loan portfolio is diversified by geographic region and specific collateral property type as follows:

	December 31, 2019		December 31, 2018	
	Amortized cost	Percent of total	Amortized cost	Percent of total
	<i>(in millions)</i>			
Geographic distribution				
New England	\$ 613.9	4.1 %	\$ 640.6	4.6 %
Middle Atlantic	4,139.7	27.5	3,927.3	28.0
East North Central	624.5	4.2	592.8	4.2
West North Central	237.2	1.6	205.8	1.5
South Atlantic	2,318.4	15.4	2,206.5	15.8
East South Central	438.5	2.9	422.5	3.0
West South Central	1,450.0	9.7	1,213.8	8.7
Mountain	931.8	6.2	968.6	6.9
Pacific	3,963.7	26.4	3,567.6	25.5
International	299.5	2.0	250.8	1.8
Total	\$ 15,017.2	100.0 %	\$ 13,996.3	100.0 %
Property type distribution				
Office	\$ 4,887.1	32.6 %	\$ 4,625.8	33.0 %
Retail	2,052.6	13.7	2,305.6	16.5
Industrial	2,268.5	15.1	2,312.9	16.5
Apartments	5,246.9	34.9	4,250.5	30.4
Hotel	90.8	0.6	99.8	0.7
Mixed use/other	471.3	3.1	401.7	2.9
Total	\$ 15,017.2	100.0 %	\$ 13,996.3	100.0 %

Our residential mortgage loan portfolio is composed of first lien mortgages with an amortized cost of \$1,485.7 million and \$1,352.9 million and home equity mortgages with an amortized cost of \$11.0 million and \$15.1 million as of December 31, 2019 and December 31, 2018, respectively. Our first lien loans are concentrated in Chile and the United States. Our residential home equity mortgages are concentrated in the United States and are generally second lien mortgages comprised of closed-end loans and lines of credit.

Mortgage Loan Credit Monitoring

Commercial Credit Risk Profile Based on Internal Rating

We actively monitor and manage our commercial mortgage loan portfolio. All commercial mortgage loans are analyzed regularly and substantially all are internally rated, based on a proprietary risk rating cash flow model, in order to monitor the financial quality of these assets.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

The model stresses expected cash flows at various levels and at different points in time depending on the durability of the income stream, which includes our assessment of factors such as location (macro and micro markets), tenant quality and lease expirations. Our internal rating analysis presents expected losses in terms of an S&P Global (“S&P”) bond equivalent rating. As the credit risk for commercial mortgage loans increases, we adjust our internal ratings downward with loans in the category “B+ and below” having the highest risk for credit loss. Internal ratings on commercial mortgage loans are updated at least annually and potentially more often for certain loans with material changes in collateral value or occupancy and for loans on an internal “watch list”.

Commercial mortgage loans that require more frequent and detailed attention are identified and placed on an internal “watch list”. Among the criteria that would indicate a potential problem are significant negative changes in ratios of loan to value or contract rents to debt service, major tenant vacancies or bankruptcies, borrower sponsorship problems, late payments, delinquent taxes and loan relief/restructuring requests.

The amortized cost of our commercial mortgage loan portfolio by credit risk, as determined by our internal rating system expressed in terms of an S&P bond equivalent rating, was as follows:

	December 31, 2019		
	Brick and mortar	CTL	Total
	<i>(in millions)</i>		
A- and above	\$ 13,885.2	\$ 76.7	\$ 13,961.9
BBB+ thru BBB-	943.1	83.8	1,026.9
BB+ thru BB-	23.3	—	23.3
B+ and below	5.1	—	5.1
Total	\$ 14,856.7	\$ 160.5	\$ 15,017.2

	December 31, 2018		
	Brick and mortar	CTL	Total
	<i>(in millions)</i>		
A- and above	\$ 12,735.2	\$ 84.3	\$ 12,819.5
BBB+ thru BBB-	977.3	105.7	1,083.0
BB+ thru BB-	88.3	—	88.3
B+ and below	5.5	—	5.5
Total	\$ 13,806.3	\$ 190.0	\$ 13,996.3

Residential Credit Risk Profile Based on Performance Status

Our residential mortgage loan portfolio is monitored based on performance of the loans. Monitoring on a residential mortgage loan increases when the loan is delinquent or earlier if there is an indication of potential impairment. We define non-performing residential mortgage loans as loans 90 days or greater delinquent or on non-accrual status.

The amortized cost of our performing and non-performing residential mortgage loans was as follows:

	December 31, 2019		
	First liens	Home equity	Total
	<i>(in millions)</i>		
Performing	\$ 1,474.2	\$ 8.0	\$ 1,482.2
Non-performing	11.5	3.0	14.5
Total	\$ 1,485.7	\$ 11.0	\$ 1,496.7

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

	December 31, 2018		
	First liens	Home equity <i>(in millions)</i>	Total
Performing	\$ 1,340.3	\$ 10.8	\$ 1,351.1
Non-performing	12.6	4.3	16.9
Total	\$ 1,352.9	\$ 15.1	\$ 1,368.0

Non-Accrual Mortgage Loans

Commercial and residential mortgage loans are placed on non-accrual status if we have concern regarding the collectability of future payments or if a loan has matured without being paid off or extended. Factors considered may include conversations with the borrower, loss of major tenant, bankruptcy of borrower or major tenant, decreased property cash flow for commercial mortgage loans or number of days past due and other circumstances for residential mortgage loans. Based on an assessment as to the collectability of the principal, a determination is made to apply any payments received either against the principal, against the valuation allowance or according to the contractual terms of the loan. When a loan is placed on non-accrual status, the accrued unpaid interest receivable is reversed against interest income. Accrual of interest resumes after factors resulting in doubts about collectability have improved. Residential first lien mortgages in the Chilean market are carried on accrual for a longer period of delinquency than domestic loans, as assessment of collectability is based on the nature of the loans and collection practices in that market.

The amortized cost of mortgage loans on non-accrual status was as follows:

	December 31, 2019	December 31, 2018
	<i>(in millions)</i>	
Residential:		
First liens	\$ 8.8	\$ 10.1
Home equity	3.0	4.3
Total	\$ 11.8	\$ 14.4

The aging of our mortgage loans, based on amortized cost, was as follows:

	December 31, 2019							Recorded investment 90 days or more and accruing
	30-59 days past due	60-89 days past due	90 days or more past due	Total past due	Current	Total loans		
	<i>(in millions)</i>							
Commercial-brick and mortar	\$ —	\$ —	\$ —	\$ —	\$ 14,856.7	\$ 14,856.7	\$ —	
Commercial-CTL	—	—	—	—	160.5	160.5	—	
Residential-first liens	46.6	9.3	11.2	67.1	1,418.6	1,485.7	2.7	
Residential-home equity	0.8	—	0.3	1.1	9.9	11.0	—	
Total	\$ 47.4	\$ 9.3	\$ 11.5	\$ 68.2	\$ 16,445.7	\$ 16,513.9	\$ 2.7	

	December 31, 2018							Recorded investment 90 days or more and accruing
	30-59 days past due	60-89 days past due	90 days or more past due	Total past due	Current	Total loans		
	<i>(in millions)</i>							
Commercial-brick and mortar	\$ —	\$ —	\$ —	\$ —	\$ 13,806.3	\$ 13,806.3	\$ —	
Commercial-CTL	—	—	—	—	190.0	190.0	—	
Residential-first liens	44.3	8.4	12.1	64.8	1,288.1	1,352.9	2.5	
Residential-home equity	0.8	0.6	0.4	1.8	13.3	15.1	—	
Total	\$ 45.1	\$ 9.0	\$ 12.5	\$ 66.6	\$ 15,297.7	\$ 15,364.3	\$ 2.5	

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Mortgage Loan Valuation Allowance

We establish a valuation allowance to provide for the risk of credit losses inherent in our portfolio. The valuation allowance includes loan specific reserves for loans that are deemed to be impaired as well as reserves for pools of loans with similar risk characteristics where a property risk or market specific risk has not been identified but for which we anticipate a loss may occur. Mortgage loans on real estate are considered impaired when, based on current information and events, it is probable we will be unable to collect all amounts due according to contractual terms of the loan agreement. When we determine a loan is impaired, a valuation allowance is established equal to the difference between the carrying amount of the mortgage loan and the estimated value reduced by the cost to sell. Estimated value is based on either the present value of the expected future cash flows discounted at the loan's effective interest rate, the loan's observable market price or fair value of the collateral. Subsequent changes in the estimated value are reflected in the valuation allowance. Amounts on loans deemed to be uncollectible are charged off and removed from the valuation allowance. The change in the valuation allowance provision is included in net realized capital gains (losses) on our consolidated statements of operations.

The valuation allowance is maintained at a level believed adequate by management to absorb estimated probable credit losses. Management's periodic evaluation and assessment of the valuation allowance adequacy is based on known and inherent risks in the portfolio, adverse situations that may affect a borrower's ability to repay, the estimated value of the underlying collateral, composition of the loan portfolio, portfolio delinquency information, underwriting standards, peer group information, current economic conditions, loss experience and other relevant factors. The evaluation of our impaired loan component is subjective, as it requires the estimation of timing and amount of future cash flows expected to be received on impaired loans.

We review our commercial mortgage loan portfolio and analyze the need for a valuation allowance for any loan that is delinquent for 60 days or more, in process of foreclosure, restructured, on the internal "watch list" or that currently has a valuation allowance. In addition to establishing allowance levels for specifically identified impaired commercial mortgage loans, management determines an allowance for all other loans in the portfolio for which historical experience and current economic conditions indicate certain losses exist. These loans are segregated by risk rating level with an estimated loss ratio applied against each risk rating level. The loss ratio is generally based upon historical loss experience for each risk rating level as adjusted for certain current environmental factors management believes to be relevant.

For our residential mortgage loan portfolio, we separate the loans into several homogeneous pools, each of which consist of loans of a similar nature including but not limited to loans similar in collateral, term and structure and loan purpose or type. We evaluate loan pools based on aggregated risk ratings, estimated specific loss potential in the different classes of credits, and historical loss experience by pool type. We adjust these quantitative factors for qualitative factors of present conditions. Qualitative factors include items such as economic and business conditions, changes in the portfolio, value of underlying collateral and concentrations. Residential mortgage loan pools exclude loans that have been restructured or impaired, as those loans are evaluated individually.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

A rollforward of our valuation allowance and ending balances of the allowance and loan balance by basis of impairment method was as follows:

	<u>Commercial</u>	<u>Residential</u>	<u>Total</u>
	<i>(in millions)</i>		
For the year ended December 31, 2019			
Beginning balance	\$ 24.3	\$ 3.1	\$ 27.4
Provision	0.2	(3.2)	(3.0)
Charge-offs	—	(0.6)	(0.6)
Recoveries	—	3.2	3.2
Ending balance	<u>\$ 24.5</u>	<u>\$ 2.5</u>	<u>\$ 27.0</u>
Allowance ending balance by basis of impairment method:			
Individually evaluated for impairment	\$ —	\$ 1.4	\$ 1.4
Collectively evaluated for impairment	24.5	1.1	25.6
Allowance ending balance	<u>\$ 24.5</u>	<u>\$ 2.5</u>	<u>\$ 27.0</u>
Loan balance by basis of impairment method:			
Individually evaluated for impairment	\$ —	\$ 11.4	\$ 11.4
Collectively evaluated for impairment	15,017.2	1,485.3	16,502.5
Loan ending balance	<u>\$ 15,017.2</u>	<u>\$ 1,496.7</u>	<u>\$ 16,513.9</u>
For the year ended December 31, 2018			
Beginning balance	\$ 25.8	\$ 6.9	\$ 32.7
Provision	(1.5)	(4.5)	(6.0)
Charge-offs	—	(2.4)	(2.4)
Recoveries	—	3.1	3.1
Ending balance	<u>\$ 24.3</u>	<u>\$ 3.1</u>	<u>\$ 27.4</u>
Allowance ending balance by basis of impairment method:			
Individually evaluated for impairment	\$ —	\$ 1.4	\$ 1.4
Collectively evaluated for impairment	24.3	1.7	26.0
Allowance ending balance	<u>\$ 24.3</u>	<u>\$ 3.1</u>	<u>\$ 27.4</u>
Loan balance by basis of impairment method:			
Individually evaluated for impairment	\$ —	\$ 9.2	\$ 9.2
Collectively evaluated for impairment	13,996.3	1,358.8	15,355.1
Loan ending balance	<u>\$ 13,996.3</u>	<u>\$ 1,368.0</u>	<u>\$ 15,364.3</u>
For the year ended December 31, 2017			
Beginning balance	\$ 27.4	\$ 17.5	\$ 44.9
Provision	(1.6)	(10.4)	(12.0)
Charge-offs	—	(5.1)	(5.1)
Recoveries	—	4.9	4.9
Ending balance	<u>\$ 25.8</u>	<u>\$ 6.9</u>	<u>\$ 32.7</u>
Allowance ending balance by basis of impairment method:			
Individually evaluated for impairment	\$ —	\$ 4.5	\$ 4.5
Collectively evaluated for impairment	25.8	2.4	28.2
Allowance ending balance	<u>\$ 25.8</u>	<u>\$ 6.9</u>	<u>\$ 32.7</u>
Loan balance by basis of impairment method:			
Individually evaluated for impairment	\$ —	\$ 12.5	\$ 12.5
Collectively evaluated for impairment	12,897.3	1,273.4	14,170.7
Loan ending balance	<u>\$ 12,897.3</u>	<u>\$ 1,285.9</u>	<u>\$ 14,183.2</u>

Impaired Mortgage Loans

Impaired mortgage loans are loans with a related specific valuation allowance, loans whose carrying amount has been reduced to the expected collectible amount because the impairment has been considered other than temporary or a loan modification has been classified as a troubled debt restructuring (“TDR”).

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Based on an assessment as to the collectability of the principal, a determination is made to apply any payments received either against the principal, against the valuation allowance or according to the contractual terms of the loan. Our recorded investment in and unpaid principal balance of impaired loans along with the related loan specific allowance for losses, if any, and the average recorded investment and interest income recognized during the time the loans were impaired were as follows:

	December 31, 2019		
	Recorded investment	Unpaid principal balance	Related allowance
<i>(in millions)</i>			
With no related allowance recorded:			
Residential-first liens	\$ 0.8	\$ —	\$ —
With an allowance recorded:			
Residential-first liens	6.8	5.1	0.2
Residential-home equity	3.8	5.0	1.2
Total:			
Residential	<u>\$ 11.4</u>	<u>\$ 10.1</u>	<u>\$ 1.4</u>
	December 31, 2018		
	Recorded investment	Unpaid principal balance	Related allowance
<i>(in millions)</i>			
With no related allowance recorded:			
Residential-first liens	\$ 1.6	\$ 1.6	\$ —
With an allowance recorded:			
Residential-first liens	2.2	2.2	—
Residential-home equity	5.4	6.5	1.4
Total:			
Residential	<u>\$ 9.2</u>	<u>\$ 10.3</u>	<u>\$ 1.4</u>
	Average recorded investment		Interest income recognized
	<i>(in millions)</i>		
For the year ended December 31, 2019			
With no related allowance recorded:			
Residential-first liens	\$ 1.2	\$ —	
With an allowance recorded:			
Residential-first liens		4.5	0.1
Residential-home equity		4.6	0.1
Total:			
Residential	<u>\$ 10.3</u>	<u>\$ 0.2</u>	
For the year ended December 31, 2018			
With no related allowance recorded:			
Residential-first liens	\$ 1.3	\$ —	
With an allowance recorded:			
Residential-first liens		3.2	0.1
Residential-home equity		6.5	0.2
Total:			
Residential	<u>\$ 11.0</u>	<u>\$ 0.3</u>	
For the year ended December 31, 2017			
With no related allowance recorded:			
Residential-first liens	\$ 1.2	\$ —	
With an allowance recorded:			
Residential-first liens		4.4	0.2
Residential-home equity		10.3	0.2
Total:			
Residential	<u>\$ 15.9</u>	<u>\$ 0.4</u>	

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Mortgage Loan Modifications

Our commercial and residential mortgage loan portfolios can include loans that have been modified. We assess loan modifications on a case-by-case basis to evaluate whether a TDR has occurred. When we have commercial mortgage loan TDRs, they are modified to delay or reduce principal payments and to reduce or delay interest payments. The commercial mortgage loan modifications result in delayed cash receipts, a decrease in interest income and loan rates that are considered below market. When we have residential mortgage loan TDRs, they include modifications of interest-only payment periods, delays in principal balloon payments and interest rate reductions. Residential mortgage loan modifications result in delayed or decreased cash receipts and a decrease in interest income.

When we have commercial mortgage loan TDRs, they are reserved for in the mortgage loan valuation allowance at the estimated fair value of the underlying collateral reduced by the cost to sell.

When we have residential mortgage loan TDRs, they are specifically reserved for in the mortgage loan valuation allowance if losses result from the modification. Residential mortgage loans that have defaulted or have been discharged through bankruptcy are reduced to the expected collectible amount.

We did not have any significant loans that were modified and met the criteria of a TDR in 2019, 2018 and 2017.

Real Estate

Depreciation expense on invested real estate was \$60.0 million, \$54.1 million and \$55.9 million in 2019, 2018 and 2017, respectively. Accumulated depreciation was \$526.0 million and \$487.2 million as of December 31, 2019 and 2018, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Real Estate Transactions

In September 2017, we entered an exchange agreement to exit certain real estate joint ventures. The transaction resulted in us transferring our interest in certain real estate properties in exchange for our joint venture partner's interest in certain other real estate properties. In a subsequent transaction we sold certain of these real estate properties to a third party. Both transactions closed in September 2017 and resulted in a net pre-tax realized capital gain of \$690.9 million (net after-tax realized capital gain of \$410.8 million).

Other Investments

Other investments include interests in unconsolidated entities, domestic and international joint ventures and partnerships and properties owned jointly with venture partners and operated by the partners. Such investments are generally accounted for using the equity method. In applying the equity method, we record our share of income or loss reported by the equity investees in net investment income. Summarized financial information for these unconsolidated entities was as follows:

	December 31,	
	2019	2018
	<i>(in millions)</i>	
Total assets	\$ 158,439.7	\$ 135,355.6
Total liabilities	88,455.8	80,265.4
Total equity	\$ 69,983.9	\$ 55,090.2
Net investment in unconsolidated entities (1)	\$ 1,825.5	\$ 1,723.7

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Total revenues	\$ 17,802.2	\$ 15,389.4	\$ 15,020.9
Net income	7,938.3	6,542.1	4,530.1
Our share of net income of unconsolidated entities (1)	222.5	161.6	232.7

(1) Our most significant equity investee is Brasilprev Seguros e Previdencia, a co-managed joint venture in Brazil.

In addition, other investments include \$782.9 million and \$830.7 million of direct financing leases as of December 31, 2019 and 2018, respectively. Our Chilean operations enter into private placement contracts for commercial, industrial and office space properties whereby our Chilean operations purchase the real estate and/or building from the seller-lessee but then lease the property back to the seller-lessee. Ownership of the property is transferred to the lessee by the end of the lease term. The direct financing lease receivables are carried at amortized cost. We actively monitor and manage our direct financing leases. All leases within the portfolio are analyzed regularly and internally rated, based on financial condition, payment history and loan-to-value.

Furthermore, other investments include \$734.1 million and \$502.6 million of cash surrender value of company owned life insurance as of December 31, 2019 and 2018, respectively.

Derivative assets are carried at fair value and reported as a component of other investments. See Note 5, Derivative Financial Instruments, for further details. Certain sponsored investment funds are also carried at fair value and reported as a component of other investments, with changes in fair value included in net realized capital gains (losses) on our consolidated statements of operations. The fair value of these funds was \$678.7 million and \$719.7 million as of December 31, 2019 and 2018, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Securities Posted as Collateral

As of December 31, 2019 and 2018, we posted \$4,062.0 million and \$3,761.3 million, respectively, in commercial mortgage loans and residential first lien mortgages to satisfy collateral requirements associated with our obligation under funding agreements with Federal Home Loan Bank of Des Moines (“FHLB Des Moines”). In addition, as of December 31, 2019 and 2018, we posted \$2,749.4 million and \$2,402.5 million, respectively, in fixed maturities, available-for-sale and trading securities to satisfy collateral requirements primarily associated with a reinsurance arrangement, our derivative credit support annex (collateral) agreements, Futures Commission Merchant (“FCM”) agreements, a lending arrangement and our obligation under funding agreements with FHLB Des Moines. Since we did not relinquish ownership rights on these instruments, they are reported as mortgage loans, fixed maturities, available-for-sale and fixed maturities, trading, respectively, on our consolidated statements of financial position. Of the securities posted as collateral, as of December 31, 2019 and 2018, \$163.9 million and \$124.2 million, respectively, could be sold or repledged by the secured party.

Balance Sheet Offsetting

Financial assets subject to master netting agreements or similar agreements were as follows:

	Gross amount of recognized assets (1)	Gross amounts not offset in the consolidated statements of financial position		Net amount
		Financial instruments (2)	Collateral received	
<i>(in millions)</i>				
December 31, 2019				
Derivative assets	\$ 288.7	\$ (88.4)	\$ (197.6)	\$ 2.7
Reverse repurchase agreements	23.6	—	(23.6)	—
Total	<u>\$ 312.3</u>	<u>\$ (88.4)</u>	<u>\$ (221.2)</u>	<u>\$ 2.7</u>
December 31, 2018				
Derivative assets	\$ 186.3	\$ (70.5)	\$ (108.1)	\$ 7.7
Reverse repurchase agreements	53.0	—	(53.0)	—
Total	<u>\$ 239.3</u>	<u>\$ (70.5)</u>	<u>\$ (161.1)</u>	<u>\$ 7.7</u>

- (1) The gross amount of recognized derivative and reverse repurchase agreement assets are reported with other investments and cash and cash equivalents, respectively, on the consolidated statements of financial position. The above excludes \$6.0 million and \$7.7 million of derivative assets as of December 31, 2019 and December 31, 2018, respectively, that are not subject to master netting agreements or similar agreements. The gross amounts of derivative and reverse repurchase agreement assets are not netted against offsetting liabilities for presentation on the consolidated statements of financial position.
- (2) Represents amount of offsetting derivative liabilities that are subject to an enforceable master netting agreement or similar agreement that are not netted against the gross derivative assets for presentation on the consolidated statements of financial position.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

4. Investments – (continued)

Financial liabilities subject to master netting agreements or similar agreements were as follows:

	Gross amount of recognized liabilities (1)	Gross amounts not offset in the consolidated statements of financial position		Net amount
		Financial instruments (2)	Collateral pledged	
<i>(in millions)</i>				
December 31, 2019				
Derivative liabilities	\$ 216.0	\$ (88.4)	\$ (118.3)	\$ 9.3
December 31, 2018				
Derivative liabilities	\$ 153.4	\$ (70.5)	\$ (52.3)	\$ 30.6

- (1) The gross amount of recognized derivative liabilities is reported with other liabilities on the consolidated statements of financial position. The above excludes \$314.5 million and \$138.3 million of derivative liabilities as of December 31, 2019 and December 31, 2018, respectively, which are primarily embedded derivatives that are not subject to master netting agreements or similar agreements. The gross amounts of derivative liabilities are not netted against offsetting assets for presentation on the consolidated statements of financial position.
- (2) Represents amount of offsetting derivative assets that are subject to an enforceable master netting agreement or similar agreement that are not netted against the gross derivative liabilities for presentation on the consolidated statements of financial position.

The financial instruments that are subject to master netting agreements or similar agreements include right of setoff provisions. Derivative instruments include provisions to setoff positions covered under the agreements with the same counterparties and provisions to setoff positions outside of the agreements with the same counterparties in the event of default by one of the parties. Derivative instruments also include collateral or variation margin provisions, which are generally settled daily with each counterparty. See Note 5, Derivative Financial Instruments, for further details.

Repurchase and reverse repurchase agreements include provisions to setoff other repurchase and reverse repurchase balances with the same counterparty. Repurchase and reverse repurchase agreements also include collateral provisions with the counterparties. For reverse repurchase agreements we require the counterparties to pledge collateral with a value greater than the amount of cash transferred. We have the right but do not sell or repledge collateral received in reverse repurchase agreements. Repurchase agreements are structured as secured borrowings for all counterparties. We pledge fixed maturities available-for-sale, which the counterparties have the right to sell or repledge. Interest incurred on repurchase agreements is reported as part of operating expenses on the consolidated statements of operations. Net proceeds related to repurchase agreements are reported as a component of financing activities on the consolidated statements of cash flows. We did not have any outstanding repurchase agreements as of December 31, 2019 and December 31, 2018.

5. Derivative Financial Instruments

Derivatives are generally used to hedge or reduce exposure to market risks associated with assets held or expected to be purchased or sold and liabilities incurred or expected to be incurred. Derivatives are used to change the characteristics of our asset/liability mix consistent with our risk management activities. Derivatives are also used in asset replication strategies.

Types of Derivative Instruments

Interest Rate Contracts

Interest rate risk is the risk we will incur economic losses due to adverse changes in interest rates. Sources of interest rate risk include the difference between the maturity and interest rate changes of assets with the liabilities they support, timing differences between the pricing of liabilities and the purchase or procurement of assets and changing cash flow profiles from original projections due to prepayment options embedded within asset and liability contracts. We use various derivatives to manage our exposure to fluctuations in interest rates.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

5. Derivative Financial Instruments – (continued)

Interest rate swaps are contracts in which we agree with other parties to exchange, at specified intervals, the difference between fixed rate and/or floating rate interest amounts based upon designated market rates or rate indices and an agreed upon notional principal amount. Generally, no cash is exchanged at the outset of the contract and no principal payments are made by any party. Cash is paid or received based on the terms of the swap. We use interest rate swaps primarily to more closely match the interest rate characteristics of assets and liabilities and to mitigate the risks arising from timing mismatches between assets and liabilities (including duration mismatches). We also use interest rate swaps to hedge against changes in the value of assets we anticipate acquiring and other anticipated transactions and commitments. Interest rate swaps are used to hedge against changes in the value of the guaranteed minimum withdrawal benefit (“GMWB”) liability. The GMWB rider on our variable annuity products provides for guaranteed minimum withdrawal benefits regardless of the actual performance of various equity and/or fixed income funds available with the product.

Interest rate options, including interest rate caps and interest rate floors, which can be combined to form interest rate collars, are contracts that entitle the purchaser to pay or receive the amounts, if any, by which a specified market rate exceeds a cap strike interest rate, or falls below a floor strike interest rate, respectively, at specified dates. We use interest rate options to manage prepayment risks in our assets and minimum guaranteed interest rates and lapse risks in our liabilities.

A swaption is an option to enter into an interest rate swap at a future date. We purchase swaptions to hedge interest rate exposure for certain assets and liabilities. Swaptions not only hedge against the downside risk, but also allow us to take advantage of any upside benefits.

In exchange-traded futures transactions, we agree to purchase or sell a specified number of contracts, the values of which are determined by the values of designated classes of securities, and to post variation margin on a daily basis in an amount equal to the difference in the daily market values of those contracts. We enter into exchange-traded futures with regulated futures commissions merchants who are members of a trading exchange. We have used exchange-traded futures to reduce market risks from changes in interest rates and to alter mismatches between the assets in a portfolio and the liabilities supported by those assets.

Foreign Exchange Contracts

Foreign currency risk is the risk we will incur economic losses due to adverse fluctuations in foreign currency exchange rates. This risk arises from foreign currency-denominated funding agreements issued to nonqualified institutional investors in the international market, foreign currency-denominated fixed maturity and equity securities, and our international operations, including expected cash flows and potential acquisition and divestiture activity. We use various derivatives to manage our exposure to fluctuations in foreign currency exchange rates.

Currency swaps are contracts in which we agree with other parties to exchange, at specified intervals, a series of principal and interest payments in one currency for that of another currency. Generally, the principal amount of each currency is exchanged at the beginning and termination of the currency swap by each party. The interest payments are primarily fixed-to-fixed rate; however, they may also be fixed-to-floating rate or floating-to-fixed rate. These transactions are entered into pursuant to master agreements that provide for a single net payment to be made by one counterparty for payments made in the same currency at each due date. We use currency swaps to reduce market risks from changes in currency exchange rates with respect to investments or liabilities denominated in foreign currencies that we either hold or intend to acquire or sell.

Currency forwards are contracts in which we agree with other parties to deliver or receive a specified amount of an identified currency at a specified future date. Typically, the price is agreed upon at the time of the contract and payment for such a contract is made at the specified future date. We use currency forwards to reduce market risks from changes in currency exchange rates with respect to investments or liabilities denominated in foreign currencies that we either hold or intend to acquire or sell. We sometimes use currency forwards to hedge the currency risk associated with a business combination or to hedge certain net equity investments in or expected cash flows from our foreign operations.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

5. Derivative Financial Instruments – (continued)

Currency options are contracts that give the holder the right, but not the obligation to buy or sell a specified amount of the identified currency within a limited period of time at a contracted price. The contracts are net settled in cash, based on the differential in the current foreign exchange rate and the strike price. Purchased and sold options can be combined to form a foreign currency collar where we receive a payment if the foreign exchange rate is below the purchased option strike price and make a payment if the foreign exchange rate is above the sold option strike price. We use currency options to hedge expected cash flows from our foreign operations.

Equity Contracts

Equity risk is the risk that we will incur economic losses due to adverse fluctuations in common stock prices. We use various derivatives to manage our exposure to equity risk, which arises from products in which the interest we credit is tied to an external equity index as well as products subject to minimum contractual guarantees.

We purchase equity call spreads (“option collars”) to hedge the equity participation rates promised to contractholders in conjunction with our fixed deferred annuity and universal life products that credit interest based on changes in an external equity index. We use exchange-traded futures and equity put options to hedge against changes in the value of the GMWB liability related to the GMWB rider on our variable annuity product. The premium associated with certain options is paid quarterly over the life of the option contract.

Credit Contracts

Credit risk relates to the uncertainty associated with the continued ability of a given obligor to make timely payments of principal and interest. We use credit default swaps to enhance the return on our investment portfolio by providing comparable exposure to fixed income securities that might not be available in the primary market. They are also used to hedge credit exposures in our investment portfolio. Credit derivatives are used to sell or buy credit protection on an identified name or names on an unfunded or synthetic basis in return for receiving or paying a quarterly premium. The premium generally corresponds to a referenced name’s credit spread at the time the agreement is executed. In cases where we sell protection, we also buy a quality cash bond to match against the credit default swap, thereby entering into a synthetic transaction replicating a cash security. When selling protection, if there is an event of default by the referenced name, as defined by the agreement, we are obligated to pay the counterparty the referenced amount of the contract and receive in return the referenced security in a principal amount equal to the notional value of the credit default swap.

Other Contracts

Embedded Derivatives. We purchase or issue certain financial instruments or products that contain a derivative instrument that is embedded in the financial instrument or product. When it is determined that the embedded derivative possesses economic characteristics that are not clearly or closely related to the economic characteristics of the host contract and a separate instrument with the same terms would qualify as a derivative instrument, the embedded derivative is bifurcated from the host instrument for measurement purposes. The embedded derivative, which is reported with the host instrument in the consolidated statements of financial position, is carried at fair value.

We offer group annuity contracts that have guaranteed separate accounts as an investment option. We also offer funds with embedded fixed-rate guarantees as investment options in our defined contribution plans in Hong Kong.

We have structured investment relationships with trusts we have determined to be VIEs, which are consolidated in our financial statements. The notes issued by these trusts include obligations to deliver an underlying security to residual interest holders and the obligations contain an embedded derivative of the forecasted transaction to deliver the underlying security.

We have fixed deferred annuities and universal life products that credit interest based on changes in an external equity index. We also have certain variable annuity products with a GMWB rider, which allows the customer to make withdrawals of a specified annual amount, either for a fixed number of years or for the lifetime of the customer, even if the account value is fully exhausted. Declines in the equity markets may increase our exposure to benefits under contracts with the GMWB. We economically hedge the exposure in these contracts, as previously explained.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

Exposure

Our risk of loss is typically limited to the fair value of our derivative instruments and not to the notional or contractual amounts of these derivatives. We are also exposed to credit losses in the event of nonperformance of the counterparties. Our current credit exposure is limited to the value of derivatives that have become favorable to us. This credit risk is minimized by purchasing such agreements from financial institutions with high credit ratings and by establishing and monitoring exposure limits. We also utilize various credit enhancements, including collateral and credit triggers to reduce the credit exposure to our derivative instruments.

Derivatives may be exchange-traded or they may be privately negotiated contracts, which are usually referred to as over-the-counter (“OTC”) derivatives. Certain of our OTC derivatives are cleared and settled through central clearing counterparties (“OTC cleared”), while others are bilateral contracts between two counterparties (“bilateral OTC”). Our derivative transactions are generally documented under International Swaps and Derivatives Association, Inc. (“ISDA”) Master Agreements. Management believes that such agreements provide for legally enforceable set-off and close-out netting of exposures to specific counterparties. Under such agreements, in connection with an early termination of a transaction, we are permitted to set off our receivable from a counterparty against our payables to the same counterparty arising out of all included transactions. For reporting purposes, we do not offset fair value amounts of bilateral OTC derivatives for the right to reclaim cash collateral or the obligation to return cash collateral against fair value amounts recognized for derivative instruments executed with the same counterparties under master netting agreements. OTC cleared derivatives have variation margin that is legally characterized as settlement of the derivative exposure, which reduces their fair value in the consolidated statements of financial position.

We posted \$271.6 million and \$106.6 million in cash and securities under collateral arrangements as of December 31, 2019 and December 31, 2018, respectively, to satisfy collateral and initial margin requirements associated with our derivative credit support agreements and FCM agreements.

Certain of our derivative instruments contain provisions that require us to maintain an investment grade rating from each of the major credit rating agencies on our debt. If the ratings on our debt were to fall below investment grade, it would be in violation of these provisions and the counterparties to the derivative instruments could request immediate payment or demand immediate and ongoing full overnight collateralization on derivative instruments in net liability positions. The aggregate fair value, inclusive of accrued interest, of all derivative instruments with credit-risk-related contingent features that were in a liability position without regard to netting under derivative credit support annex agreements as of December 31, 2019 and December 31, 2018, was \$164.7 million and \$109.7 million, respectively. Cleared derivatives have contingent features that require us to post excess margin as required by the FCM. The terms surrounding excess margin vary by FCM agreement. With respect to derivatives containing collateral triggers, we posted collateral and initial margin of \$271.6 million and \$106.6 million as of December 31, 2019 and December 31, 2018, respectively, in the normal course of business, which reflects netting under derivative agreements. If the credit-risk-related contingent features underlying these agreements were triggered on December 31, 2019, we would be required to post an additional \$42.6 million of collateral to our counterparties.

As of December 31, 2019 and December 31, 2018, we had received \$156.8 million and \$79.5 million, respectively, of cash collateral associated with our derivative credit support annex agreements and FCM agreements, for which we recorded a corresponding liability reflecting our obligation to return the collateral.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

Notional amounts are used to express the extent of our involvement in derivative transactions and represent a standard measurement of the volume of our derivative activity. Notional amounts represent those amounts used to calculate contractual flows to be exchanged and are not paid or received, except for contracts such as currency swaps. Credit exposure represents the gross amount owed to us under derivative contracts as of the valuation date. The notional amounts and credit exposure of our derivative financial instruments by type were as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
Notional amounts of derivative instruments		
Interest rate contracts:		
Interest rate swaps	\$ 35,173.6	\$ 34,393.7
Interest rate options	1,416.9	1,126.9
Interest rate futures	142.5	260.0
Swaptions	62.0	—
Foreign exchange contracts:		
Currency forwards	1,262.6	863.6
Currency swaps	1,027.2	898.6
Currency options	53.8	525.2
Equity contracts:		
Equity options	1,672.8	1,522.5
Equity futures	149.5	491.7
Credit contracts:		
Credit default swaps	165.0	420.0
Other contracts:		
Embedded derivatives	9,742.3	9,452.3
Total notional amounts at end of period	<u>\$ 50,868.2</u>	<u>\$ 49,954.5</u>
Credit exposure of derivative instruments		
Interest rate contracts:		
Interest rate swaps	\$ 181.9	\$ 95.4
Interest rate options	28.3	16.3
Foreign exchange contracts:		
Currency swaps	55.4	71.2
Currency forwards	4.9	2.8
Currency options	0.1	1.9
Equity contracts:		
Equity options	30.5	7.7
Credit contracts:		
Credit default swaps	0.5	2.4
Total gross credit exposure	<u>301.6</u>	<u>197.7</u>
Less: collateral received	<u>208.3</u>	<u>122.9</u>
Net credit exposure	<u>\$ 93.3</u>	<u>\$ 74.8</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

The fair value of our derivative instruments classified as assets and liabilities was as follows:

	Derivative assets (1)		Derivative liabilities (2)	
	December 31, 2019	December 31, 2018	December 31, 2019	December 31, 2018
	<i>(in millions)</i>			
Derivatives designated as hedging instruments				
Interest rate contracts	\$ —	\$ —	\$ 21.3	\$ 16.1
Foreign exchange contracts	30.0	37.6	15.2	13.5
Total derivatives designated as hedging instruments	<u>\$ 30.0</u>	<u>\$ 37.6</u>	<u>\$ 36.5</u>	<u>\$ 29.6</u>
Derivatives not designated as hedging instruments				
Interest rate contracts	\$ 204.2	\$ 108.0	\$ 16.7	\$ 22.6
Foreign exchange contracts	29.5	38.4	100.2	72.9
Equity contracts	30.5	7.7	63.1	27.6
Credit contracts	0.5	2.3	1.2	4.4
Other contracts	—	—	312.8	134.6
Total derivatives not designated as hedging instruments	<u>264.7</u>	<u>156.4</u>	<u>494.0</u>	<u>262.1</u>
Total derivative instruments	<u>\$ 294.7</u>	<u>\$ 194.0</u>	<u>\$ 530.5</u>	<u>\$ 291.7</u>

- (1) The fair value of derivative assets is reported with other investments on the consolidated statements of financial position.
- (2) The fair value of derivative liabilities is reported with other liabilities on the consolidated statements of financial position, with the exception of certain embedded derivative liabilities. Embedded derivatives with a net liability fair value of \$214.2 million and \$45.2 million as of December 31, 2019 and December 31, 2018, respectively, are reported with contractholder funds on the consolidated statements of financial position.

Credit Derivatives Sold

When we sell credit protection, we are exposed to the underlying credit risk similar to purchasing a fixed maturity security instrument. Our credit derivative contracts sold reference a single name or reference security (referred to as “single name credit default swaps”). These instruments are either referenced in an OTC credit derivative transaction or embedded within an investment structure that has been fully consolidated into our financial statements.

These credit derivative transactions are subject to events of default defined within the terms of the contract, which normally consist of bankruptcy, failure to pay, or modified restructuring of the reference entity and/or issue. If a default event occurs for a reference name or security, we are obligated to pay the counterparty an amount equal to the notional amount of the credit derivative transaction. As a result, our maximum future payment is equal to the notional amount of the credit derivative. In certain cases, we also may have purchased credit protection with identical underlyings to certain of our sold protection transactions. As of December 31, 2019 and December 31, 2018, we did not purchase credit protection relating to our sold protection transactions. In certain circumstances, our potential loss could also be reduced by any amount recovered in the default proceedings of the underlying credit name.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

The following tables show our credit default swap protection sold by types of contract, types of referenced/underlying asset class and external agency rating for the underlying reference security. The maximum future payments are undiscounted and have not been reduced by the effect of any offsetting transactions, collateral or recourse features described above.

	December 31, 2019			
	Notional amount	Fair value	Maximum future payments	Weighted average expected life (in years)
	<i>(in millions)</i>			
Single name credit default swaps				
Corporate debt				
A	\$ 5.0	\$ —	\$ 5.0	0.5
BBB	70.0	0.2	70.0	2.6
Sovereign				
BBB	15.0	0.3	15.0	2.0
Total credit default swap protection sold	<u>\$ 90.0</u>	<u>\$ 0.5</u>	<u>\$ 90.0</u>	2.4

	December 31, 2018			
	Notional amount	Fair value	Maximum future payments	Weighted average expected life (in years)
	<i>(in millions)</i>			
Single name credit default swaps				
Corporate debt				
AAA	\$ 10.0	\$ 0.1	\$ 10.0	0.7
A	15.0	0.1	15.0	1.0
BBB	190.0	0.4	190.0	1.7
BB	10.0	—	10.0	0.5
CCC	15.0	(3.6)	15.0	0.9
Government/municipalities				
AA	20.0	0.2	20.0	1.0
Sovereign				
A	10.0	0.1	10.0	0.7
BBB	55.0	0.4	55.0	1.3
Total credit default swap protection sold	<u>\$ 325.0</u>	<u>\$ (2.3)</u>	<u>\$ 325.0</u>	1.4

Fair Value and Cash Flow Hedges

Fair Value Hedges

We use fixed-to-floating rate interest rate swaps to more closely align the interest rate characteristics of certain assets and have used them to align the interest rate characteristics of certain liabilities. In general, these swaps are used in asset and liability management to modify duration, which is a measure of sensitivity to interest rate changes.

The net interest effect of interest rate swap transactions for derivatives in fair value hedges is recorded as an adjustment to income or expense of the underlying hedged item in our consolidated statements of operations.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

The following amounts were recorded on the consolidated statements of financial position related to cumulative basis adjustments for fair value hedges. The amortized cost includes the amortized cost basis and the fair value hedging basis adjustment.

Line item in the consolidated statements of financial position in which the hedged item is included	Amortized cost of hedged item		Cumulative amount of fair value hedging basis adjustment included in the amortized cost of the hedged item	
	December 31, 2019	December 31, 2018	December 31, 2019	December 31, 2018
	<i>(in millions)</i>			
Fixed maturities, available-for-sale:				
Active hedging relationships	\$ 142.0	\$ 137.0	\$ 18.1	\$ 12.4
Discontinued hedging relationships	159.3	298.9	7.7	13.3
Total fixed maturities, available-for-sale in active or discontinued hedging relationships	<u>\$ 301.3</u>	<u>\$ 435.9</u>	<u>\$ 25.8</u>	<u>\$ 25.7</u>

Cash Flow Hedges

We utilized floating-to-fixed rate interest rate swaps to eliminate the variability in cash flows of recognized financial assets and liabilities and forecasted transactions.

We enter into currency exchange swap agreements to convert both principal and interest payments of certain foreign denominated assets and liabilities into U.S. dollar denominated fixed-rate instruments to eliminate the exposure to future currency volatility on those items.

The net interest effect of interest rate swap and currency swap transactions for derivatives in cash flow hedges is recorded as an adjustment to income or expense of the underlying hedged item in our consolidated statements of operations.

The maximum length of time we are hedging our exposure to the variability in future cash flows for forecasted transactions, excluding those related to the payments of variable interest on existing financial assets and liabilities, is 0.5 years. As of December 31, 2019, we had \$0.0 million of net gains reported in AOCI on the consolidated statements of financial position related to active hedges of forecasted transactions. If a hedged forecasted transaction is no longer probable of occurring, cash flow hedge accounting is discontinued. If it is probable that the hedged forecasted transaction will not occur, the deferred gain or loss is immediately reclassified from AOCI into net income.

The following table shows the effect of derivatives in cash flow hedging relationships on the consolidated statements of financial position.

Derivatives in cash flow hedging relationships	Related hedged item	Amount of gain (loss) recognized in AOCI on derivatives for the year ended December 31,		
		2019	2018	2017
		<i>(in millions)</i>		
Interest rate contracts	Fixed maturities, available-for-sale	\$ (9.9)	\$ 36.7	\$ (51.7)
Foreign exchange contracts	Fixed maturities, available-for-sale	(9.4)	20.8	(68.5)
Foreign exchange contracts	Investment contracts	—	(0.1)	—
Total		<u>\$ (19.3)</u>	<u>\$ 57.4</u>	<u>\$ (120.2)</u>

We expect to reclassify net gains of \$24.3 million from AOCI into net income in the next 12 months, which includes both net deferred gains on discontinued hedges and net losses on periodic settlements of active hedges. Actual amounts may vary from this amount as a result of market conditions.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

Effect of Fair Value and Cash Flow Hedges on Consolidated Statements of Operations

The following tables show the effect of derivatives in fair value and cash flow hedging relationships and the related hedged items on the consolidated statements of operations.

	For the year ended December 31, 2019			
	Net investment income related to hedges of fixed maturities, available- for-sale	Net realized capital gains (losses) related to hedges of fixed maturities, available- for-sale	Benefits, claims and settlement expenses related to hedges of investment contracts	Operating expenses related to hedges of debt
	<i>(in millions)</i>			
Total amounts of consolidated statement of operations line items in which the effects of fair value and cash flow hedges are reported	\$ 3,998.4	\$ (52.8)	\$ 9,905.8	\$ 4,503.9
Losses on fair value hedging relationships:				
Interest rate contracts:				
Gain recognized on hedged item	\$ 5.7	\$ —	\$ —	\$ —
Loss recognized on derivatives	(6.0)	—	—	—
Amortization of hedged item basis adjustments	(4.2)	—	—	—
Amounts related to periodic settlements on derivatives	(3.4)	—	—	—
Total loss recognized for fair value hedging relationships	\$ (7.9)	\$ —	\$ —	\$ —
Gains (losses) on cash flow hedging relationships:				
Interest rate contracts:				
Gain (loss) reclassified from AOCI on derivatives	\$ 19.8	\$ (0.6)	\$ (0.1)	\$ (4.8)
Gain reclassified from AOCI into net income as a result that a forecasted transaction is no longer probable of occurring	—	0.1	—	—
Foreign exchange contracts:				
Gain reclassified from AOCI on derivatives	—	9.5	—	—
Amounts related to periodic settlements on derivatives	7.4	—	—	—
Total gain (loss) recognized for cash flow hedging relationships	\$ 27.2	\$ 9.0	\$ (0.1)	\$ (4.8)

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

	For the year ended December 31, 2018			
	Net investment income related to hedges of fixed maturities, available- for-sale	Net realized capital gains (losses) related to hedges of fixed maturities, available- for-sale	Benefits, claims and settlement expenses related to hedges of investment contracts	Operating expenses related to hedges of debt
<i>(in millions)</i>				
Total amounts of consolidated statement of operations line items in which the effects of fair value and cash flow hedges are reported	\$ 3,629.2	\$ (75.4)	\$ 8,192.5	\$ 4,136.7
Losses on fair value hedging relationships:				
Interest rate contracts:				
Loss recognized on hedged item	\$ —	\$ (6.6)	\$ —	\$ —
Gain recognized on derivatives	—	6.2	—	—
Amortization of hedged item basis adjustments	(6.7)	—	—	—
Amounts related to periodic settlements on derivatives	(5.9)	—	—	—
Total loss recognized for fair value hedging relationships	<u>\$ (12.6)</u>	<u>\$ (0.4)</u>	<u>\$ —</u>	<u>\$ —</u>
Gains (losses) on cash flow hedging relationships:				
Interest rate contracts:				
Gain (loss) reclassified from AOCI on derivatives	\$ 20.9	\$ 17.0	\$ (0.1)	\$ (10.7)
Gain reclassified from AOCI as a result that a forecasted transaction is no longer probable of occurring	—	0.3	—	—
Foreign exchange contracts:				
Gain reclassified from AOCI on derivatives	—	12.7	—	—
Amounts related to periodic settlements on derivatives	6.0	—	(0.1)	—
Total gain (loss) recognized for cash flow hedging relationships	<u>\$ 26.9</u>	<u>\$ 30.0</u>	<u>\$ (0.2)</u>	<u>\$ (10.7)</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

5. Derivative Financial Instruments – (continued)

	For the year ended December 31, 2017					
	Net investment income related to hedges of fixed maturities, available-for-sale	Net realized capital gains (losses)			Benefits, claims and settlement expenses related to hedges of investment contracts	Operating expenses related to hedges of debt
		Related to hedges of fixed maturities, available-for-sale	Related to hedges of investment contracts	Total		
<i>(in millions)</i>						
Total amounts of consolidated statement of operations line items in which the effects of fair value and cash flow hedges are reported	\$ 3,459.3			\$ 524.2	\$ 7,822.6	\$ 3,893.8
Gains (losses) on fair value hedging relationships:						
Interest rate contracts:						
Gain (loss) recognized on hedged item	\$ —	\$ (5.2)	\$ 0.6	\$ (4.6)	\$ —	\$ —
Gain (loss) recognized on derivatives	—	4.7	(0.6)	4.1	—	—
Amortization of hedged item basis adjustments	(11.6)	—	—	—	(0.5)	—
Amounts related to periodic settlements on derivatives	(10.3)	—	—	—	0.9	—
Total gain (loss) recognized for fair value hedging relationships	\$ (21.9)	\$ (0.5)	\$ —	\$ (0.5)	\$ 0.4	\$ —
Gains (losses) on cash flow hedging relationships:						
Interest rate contracts:						
Gain (loss) reclassified from AOCI on derivatives	\$ 21.0	\$ (0.6)	\$ —	\$ (0.6)	\$ —	\$ (10.8)
Gain reclassified from AOCI as a result that a forecasted transaction is no longer probable of occurring	—	0.2	—	0.2	—	—
Foreign exchange contracts:						
Gain reclassified from AOCI on derivatives	—	22.0	—	22.0	—	—
Amounts related to periodic settlements on derivatives	7.1	—	—	—	(1.1)	—
Total gain (loss) recognized for cash flow hedging relationships	\$ 28.1	\$ 21.6	\$ —	\$ 21.6	\$ (1.1)	\$ (10.8)

Derivatives Not Designated as Hedging Instruments

Our use of futures, certain swaptions and swaps, option collars, options and forwards are effective from an economic standpoint, but they have not been designated as hedges for financial reporting purposes. As such, periodic changes in the market value of these instruments, which includes mark-to-market gains and losses as well as periodic and final settlements, primarily flow directly into net realized capital gains (losses) on the consolidated statements of operations.

The following table shows the effect of derivatives not designated as hedging instruments, including fair value changes of embedded derivatives that have been bifurcated from the host contract, on the consolidated statements of operations.

Derivatives not designated as hedging instruments	Amount of gain (loss) recognized in net income on derivatives for the year ended December 31,		
	2019	2018	2017
<i>(in millions)</i>			
Interest rate contracts	\$ 218.0	\$ (27.6)	\$ (26.9)
Foreign exchange contracts	(58.6)	(64.2)	59.4
Equity contracts	(132.9)	(31.0)	(181.3)
Credit contracts	(3.6)	(1.6)	(15.9)
Other contracts	(168.1)	108.5	11.5
Total	\$ (145.2)	\$ (15.9)	\$ (153.2)

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

6. Closed Block

In connection with the 1998 MIHC formation, Principal Life formed a Closed Block to provide reasonable assurance to policyholders included therein that, after the formation of the MIHC, assets would be available to maintain dividends in aggregate in accordance with the 1997 policy dividend scales, if the experience underlying such scales continued. Assets of Principal Life were allocated to the Closed Block in an amount that produces cash flows which, together with anticipated revenue from policies and contracts included in the Closed Block, were expected to be sufficient to support the Closed Block policies. This includes, but is not limited to, provisions for payment of claims, certain expenses, charges and taxes, and to provide for continuation of policy and contract dividends in aggregate in accordance with the 1997 dividend scales, if the experience underlying such scales continues, and to allow for appropriate adjustments in such scales, if such experience changes. Due to adjustable life policies being included in the Closed Block, the Closed Block is charged with amounts necessary to properly fund for certain adjustments, such as face amount and premium increases, that are made to these policies after the Closed Block inception date. These amounts are referred to as Funding Adjustment Charges and are treated as capital transfers from the Closed Block.

Assets allocated to the Closed Block inure solely to the benefit of the holders of policies included in the Closed Block. Closed Block assets and liabilities are carried on the same basis as other similar assets and liabilities. Principal Life will continue to pay guaranteed benefits under all policies, including the policies within the Closed Block, in accordance with their terms. If the assets allocated to the Closed Block, the investment cash flows from those assets and the revenues from the policies included in the Closed Block, including investment income thereon, prove to be insufficient to pay the benefits guaranteed under the policies included in the Closed Block, Principal Life will be required to make such payments from its general funds. No additional policies were added to the Closed Block, nor was the Closed Block affected in any other way, as a result of the demutualization.

A policyholder dividend obligation (“PDO”) is required to be established for higher than expected earnings in the Closed Block that will need to be paid as dividends unless future performance of the Closed Block is less favorable than originally expected. A model of the Closed Block was established to produce the pattern of expected earnings, assets and liabilities in the Closed Block. These projections are utilized to determine ratios that will allow us to compare actual cumulative earnings to expected cumulative earnings and determine the amount of the PDO. As of December 31, 2019 and 2018, the PDO was \$202.7 million and \$36.6 million, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

6. Closed Block – (continued)

Closed Block liabilities and assets designated to the Closed Block were as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
Closed Block liabilities		
Future policy benefits and claims	\$ 3,563.1	\$ 3,732.5
Other policyholder funds	6.6	6.5
Policyholder dividends payable	199.1	211.3
Policyholder dividends obligation	202.7	36.6
Other liabilities	7.8	9.5
Total Closed Block liabilities	<u>3,979.3</u>	<u>3,996.4</u>
Assets designated to the Closed Block		
Fixed maturities, available-for-sale	2,269.6	2,176.4
Fixed maturities, trading	2.6	2.5
Equity securities	1.1	1.0
Mortgage loans	622.8	678.5
Policy loans	486.0	510.5
Other investments	46.4	33.8
Total investments	<u>3,428.5</u>	<u>3,402.7</u>
Cash and cash equivalents	47.5	42.1
Accrued investment income	38.1	39.5
Premiums due and other receivables	9.7	10.0
Deferred tax asset	29.5	30.5
Total assets designated to the Closed Block	<u>3,553.3</u>	<u>3,524.8</u>
Excess of Closed Block liabilities over assets designated to the Closed Block	426.0	471.6
Amounts included in accumulated other comprehensive income	0.9	5.2
Maximum future earnings to be recognized from Closed Block assets and liabilities	<u>\$ 426.9</u>	<u>\$ 476.8</u>

Closed Block revenues and expenses were as follows:

	<u>For the year ended December 31,</u>		
	<u>2019</u>	<u>2018</u>	<u>2017</u>
	<i>(in millions)</i>		
Revenues			
Premiums and other considerations	\$ 227.6	\$ 244.2	\$ 275.6
Net investment income	154.4	160.5	169.4
Net realized capital gains (losses)	7.4	(3.4)	(5.8)
Total revenues	<u>389.4</u>	<u>401.3</u>	<u>439.2</u>
Expenses			
Benefits, claims and settlement expenses	204.4	211.5	245.6
Dividends to policyholders	116.3	120.9	122.0
Operating expenses	2.9	3.3	3.5
Total expenses	<u>323.6</u>	<u>335.7</u>	<u>371.1</u>
Closed Block revenues, net of Closed Block expenses, before income taxes	65.8	65.6	68.1
Income taxes	12.9	11.1	46.0
Closed Block revenues, net of Closed Block expenses and income taxes	52.9	54.5	22.1
Funding adjustments	(3.0)	(0.5)	(4.4)
Closed Block revenues, net of Closed Block expenses, income taxes and funding adjustments	<u>\$ 49.9</u>	<u>\$ 54.0</u>	<u>\$ 17.7</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

6. Closed Block – (continued)

The change in maximum future earnings of the Closed Block was as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Beginning of year	\$ 476.8	\$ 532.1	\$ 549.8
Effects of implementation of accounting changes (1)	—	1.3	—
End of year	<u>426.9</u>	<u>476.8</u>	<u>532.1</u>
Change in maximum future earnings	<u>\$ (49.9)</u>	<u>\$ (54.0)</u>	<u>\$ (17.7)</u>

(1) Includes the effects of implementation of accounting changes related to equity investments and the reclassification of certain tax effects.

Principal Life charges the Closed Block with U.S. federal income taxes, payroll taxes, state and local premium taxes and other state or local taxes, licenses and fees as provided in the plan of reorganization.

7. Deferred Acquisition Costs

Acquisition costs deferred and amortized were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Balance at beginning of year	\$ 3,693.5	\$ 3,540.7	\$ 3,380.2
Costs deferred during the year	473.5	414.9	421.8
Amortized to expense during the year (1)	(347.0)	(253.5)	(234.6)
Adjustment related to unrealized (gains) losses on available-for-sale securities and derivative instruments	(298.7)	184.9	(26.7)
Other (2)	—	(193.5)	—
Balance at end of year	<u>\$ 3,521.3</u>	<u>\$ 3,693.5</u>	<u>\$ 3,540.7</u>

(1) Includes adjustments for revisions to EGPs.

(2) Reflects the impact of capitalized costs written off or transferred from DAC to a contract cost asset as a result of adopting revenue recognition guidance in 2018. See Note 1, Nature of Operations and Significant Accounting Policies, under the caption "Recent Accounting Pronouncements" for further details.

8. Insurance Liabilities

Contractholder Funds

Major components of contractholder funds in the consolidated statements of financial position were as follows:

	December 31,	
	2019	2018
	<i>(in millions)</i>	
Liabilities for investment contracts:		
Liabilities for individual annuities	\$ 13,457.5	\$ 12,913.9
GICs	10,423.5	10,321.7
Funding agreements	8,640.6	7,729.5
Other investment contracts	<u>1,596.7</u>	<u>1,652.2</u>
Total liabilities for investment contracts	<u>34,118.3</u>	<u>32,617.3</u>
Universal life and other reserves	<u>7,249.2</u>	<u>7,082.4</u>
Total contractholder funds	<u>\$ 41,367.5</u>	<u>\$ 39,699.7</u>

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

8. Insurance Liabilities – (continued)

Our GICs and funding agreements contain provisions limiting or prohibiting early surrenders, which typically include penalties for early surrenders, minimum notice requirements or, in the case of funding agreements with survivor options, minimum pre-death holding periods and specific maximum amounts.

Funding agreements include those issued directly to nonqualified institutional investors and those issued to the FHLB Des Moines under their membership funding programs. As of December 31, 2019 and 2018, \$4,010.9 million and \$3,512.2 million, respectively, of liabilities were outstanding with respect to issuances under the program with FHLB Des Moines. In addition, we have five separate programs where the funding agreements have been issued directly or indirectly to unconsolidated special purpose entities. Claims for principal and interest under funding agreements are afforded equal priority to claims of life insurance and annuity policyholders under insolvency provisions of Iowa Insurance Laws.

Principal Life was authorized to issue up to \$4.0 billion of funding agreements under a program established in 1998 to support the prospective issuance of medium term notes by an unaffiliated entity in non-U.S. markets. As of December 31, 2019 and 2018, \$75.2 million and \$109.6 million, respectively, of liabilities were outstanding with respect to the issuance outstanding under this program. Principal Life was also authorized to issue up to Euro 4.0 billion (approximately USD\$5.3 billion) of funding agreements under a program established in 2006 to support the prospective issuance of medium term notes by an unaffiliated entity in non-U.S. markets. The unaffiliated entity is an unconsolidated special purpose entity. As of December 31, 2019 and 2018, \$112.2 million and \$114.4 million, respectively, of liabilities were outstanding with respect to issuances outstanding under this program. Principal Life does not anticipate any new issuance activity under either of these programs due to the existence of the program established in 2011 described below.

In addition, Principal Life was authorized to issue up to \$7.0 billion of funding agreements under a program established in 2001 to support the prospective issuance of medium term notes by an unaffiliated entity in both domestic and international markets. The unaffiliated entity is an unconsolidated special purpose entity. As of December 31, 2019 and 2018, \$201.7 million and \$201.6 million, respectively, of liabilities were being held with respect to issuances outstanding under this program. Principal Life does not anticipate any new issuance activity under this program, given our December 2005 termination of the dealership agreement for this program and the availability of the program established in 2011 described below.

Additionally, Principal Life was authorized to issue up to \$9.0 billion of funding agreements under a program that was originally established in March 2004 to support the prospective issuance of medium term notes by unaffiliated entities in both domestic and international markets. Under this program, both the notes and the supporting funding agreements were registered with the United States Securities and Exchange Commission (“SEC”). As of both December 31, 2019 and 2018, \$26.2 million of liabilities were being held with respect to issuances outstanding under this program. In contrast with direct funding agreements, GIC issuances and the other three funding agreement-backed medium term note programs described above, Principal Life’s payment obligations on each funding agreement issued under this SEC-registered program are guaranteed by PFG. Principal Life does not anticipate any new issuance activity under this program due to the existence of the program established in 2011 described below.

Principal Life was authorized to issue up to \$5.0 billion of funding agreements under a program that was originally established in 2011 to support the prospective issuance of medium term notes by an unaffiliated entity in both domestic and international markets. The unaffiliated entity is an unconsolidated special purpose entity. In June 2015, this program was amended to authorize issuance of up to an additional \$4.0 billion in recognition of the use of nearly all \$5.0 billion of existing issuance authorization. In November 2017, this program was amended to authorize issuance of up to an additional \$4.0 billion. As of December 31, 2019 and 2018, \$4,214.3 million and \$3,765.3 million, respectively, of liabilities were being held with respect to issuances outstanding under this program. Similar to the SEC-registered program, Principal Life’s payment obligations on each funding agreement issued under this program are guaranteed by PFG. The program established in 2011 is not registered with the SEC.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

8. Insurance Liabilities – (continued)**Liability for Unpaid Claims**

The liability for unpaid claims is reported in future policy benefits and claims within our consolidated statements of financial position. Activity associated with unpaid claims was as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Balance at beginning of year	\$ 2,252.7	\$ 2,130.5	\$ 2,001.3
Less: reinsurance recoverable	404.3	375.8	340.3
Net balance at beginning of year	<u>1,848.4</u>	<u>1,754.7</u>	<u>1,661.0</u>
Incurred:			
Current year	1,361.3	1,268.8	1,196.6
Prior years	0.8	0.3	18.2
Total incurred	<u>1,362.1</u>	<u>1,269.1</u>	<u>1,214.8</u>
Payments:			
Current year	869.4	815.7	767.2
Prior years	379.4	359.7	353.9
Total payments	<u>1,248.8</u>	<u>1,175.4</u>	<u>1,121.1</u>
Net balance at end of year	1,961.7	1,848.4	1,754.7
Plus: reinsurance recoverable	403.8	404.3	375.8
Balance at end of year	<u>\$ 2,365.5</u>	<u>\$ 2,252.7</u>	<u>\$ 2,130.5</u>
Amounts not included in the rollforward above:			
Claim adjustment expense liabilities	\$ 57.9	\$ 54.6	\$ 50.7

Incurred liability adjustments relating to prior years, which affected current operations during 2019, 2018 and 2017, resulted in part from developed claims for prior years being different than were anticipated when the liabilities for unpaid claims were originally estimated. These trends have been considered in establishing the current year liability for unpaid claims.

Short-Duration Contracts**Claims Development**

The following tables present undiscounted information about claims development by incurral year, including separate information about incurred claims and paid claims net of reinsurance for the periods indicated. The tables also include information on incurred but not reported claims and the cumulative number of reported claims.

The tables present information for the number of years for which claims incurred typically remain outstanding, but do not exceed ten years. The data is disaggregated into groupings of claims with similar characteristics, such as duration of the claim payment period and average claim amount, and with consideration to the overall size of the groupings. Outstanding liabilities equal total net incurred claims less total net paid claims plus outstanding liabilities for net unpaid claims of prior years.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

8. Insurance Liabilities – (continued)

LTD and Group Life Waiver Claims

	Net incurred claims (1)										Incurred but not reported claims	Cumulative number of reported claims	
	December 31,												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			2019
	(\$ in millions)												
Incurral year													
2010	\$ 184.1										\$ 151.8	0.1	5,649
2011		203.7									166.5	0.1	6,290
2012			192.6								171.9	0.1	6,444
2013			217.9	200.0							201.9	0.1	7,050
2014				219.3	203.3						208.2	0.1	7,596
2015					242.2	231.4					219.5	0.1	7,174
2016						231.0	227.2				215.3	0.1	7,174
2017							229.8	228.4			219.5	5.4	6,161
2018								238.4	239.7		243.1	8.0	6,053
2019									239.4		245.1	3.8	5,668
Total net incurred claims											\$ 2,040.3	104.6	3,472

	Net cumulative paid claims (1)									
	December 31,									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	(in millions)									
Incurral year										
2010	\$ 10.4									\$ 116.7
2011		46.5								125.4
2012		11.2	50.0							126.1
2013			13.8	55.1						123.2
2014				12.5	55.0					132.4
2015					16.1	66.0				126.8
2016						16.9	67.0			124.9
2017							16.2	70.6		115.0
2018								17.8	76.5	79.9
2019									20.1	19.2
Total net paid claims										1,089.6
All outstanding liabilities for unpaid claims prior to 2010 net of reinsurance										237.8
Total outstanding liabilities for unpaid claims net of reinsurance										<u>\$ 1,188.5</u>

(1) 2010-2018 unaudited.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

8. Insurance Liabilities – (continued)

Dental, Vision, STD, Critical Illness and Accident Claims

	Net incurred claims (1)		Incurred but not reported claims	Cumulative number of reported claims
	December 31,		2019	2019
	2018	2019		
	<i>(\$ in millions)</i>			
Incurral year				
2018	\$ 648.3	\$ 640.0	\$ —	3,032,617
2019		724.7	45.0	3,184,519
Total net incurred claims		\$ 1,364.7		

	Net cumulative paid claims (1)	
	December 31,	
	2018	2019
	<i>(in millions)</i>	
Incurral year		
2018	\$ 589.1	\$ 640.0
2019		653.5
Total net paid claims		1,293.5
All outstanding liabilities for unpaid claims prior to 2018 net of reinsurance		—
Total outstanding liabilities for unpaid claims net of reinsurance		\$ 71.2

(1) 2018 unaudited.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

8. Insurance Liabilities – (continued)

Group Life Claims

	Net incurred claims (1)		Incurred but not reported claims	Cumulative number of reported claims
	December 31,		2019	2019
	2018	2019		
	(\$ in millions)			
Incurral year				
2018	\$ 239.6	\$ 238.4	\$ 0.7	5,220
2019		228.3	23.0	4,625
Total net incurred claims		\$ 466.7		

	Net cumulative paid claims (1)	
	December 31,	
	2018	2019
	(in millions)	
Incurral year		
2018	\$ 193.9	\$ 236.5
2019		181.7
Total net paid claims		418.2
All outstanding liabilities for unpaid claims prior to 2018 net of reinsurance		1.0
Total outstanding liabilities for unpaid claims net of reinsurance		\$ 49.5

(1) 2018 unaudited.

Reconciliation of Unpaid Claims to Liability for Unpaid Claims

Our reconciliation of net outstanding liabilities for unpaid claims of short-duration contracts to the liability for unpaid claims follows:

	December 31, 2019			
	LTD and Group Life Waiver	Dental, Vision, STD, Critical Illness and Accident	Group Life	Consolidated
	(in millions)			
Net outstanding liabilities for unpaid claims	\$ 1,188.5	\$ 71.2	\$ 49.5	\$ 1,309.2
Reconciling items:				
Reinsurance recoverable on unpaid claims	56.4	—	0.9	57.3
Impact of discounting	(215.0)	—	—	(215.0)
Liability for unpaid claims - short-duration contracts	\$ 1,029.9	\$ 71.2	\$ 50.4	1,151.5
Insurance contracts other than short-duration				1,214.0
Liability for unpaid claims				\$ 2,365.5

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

8. Insurance Liabilities – (continued)

Claim Duration and Payout

Our historical average percentage of claims paid in each year from incurral was as follows:

Year	December 31, 2019 (1)		
	LTD and Group Life Waiver	Dental, Vision, STD, Critical Illness and Accident	Group Life
1	7.6 %	91.7 %	81.7 %
2	24.2	8.0	17.0
3	14.9		
4	8.1		
5	5.6		
6	5.3		
7	4.2		
8	3.9		
9	3.5		
10	3.1		

(1) Unaudited.

Discounting

The following table provides the carrying amount of liabilities reported at present value for short-duration contract unpaid claims. We use a range of discount rates to derive the present value of the unpaid claims. The ranges of discount rates as well as the aggregate amount of discount deducted to derive the liabilities for unpaid claims and interest accretion recognized are also disclosed. Interest accretion is included in benefits, claims and settlement expenses within our consolidated statements of operations.

	LTD and Group Life Waiver	Dental, Vision, STD, Critical Illness and Accident	Group Life
	(\$ in millions)		
Carrying amount of liabilities for unpaid claims			
December 31, 2019	\$ 1,029.9	\$ 71.2	\$ 50.4
December 31, 2018	1,020.0	59.3	49.7
Range of discount rates			
December 31, 2019	3.3 - 7.0 %	— - — %	— - — %
December 31, 2018	3.3 - 7.0	— - —	— - —
Aggregate amount of discount			
December 31, 2019	\$ 215.0	\$ —	\$ —
December 31, 2018	217.7	—	—
Interest accretion			
For the year ended:			
December 31, 2019	\$ 34.2	\$ —	\$ —
December 31, 2018	34.5	—	—
December 31, 2017	35.0	—	—

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

9. Debt

Short-Term Debt

The components of short-term debt were as follows:

<u>Obligor/Applicant</u>	<u>Financing structure</u>	<u>Maturity</u>	<u>December 31, 2019</u>	
			<u>Capacity</u>	<u>Short-term debt outstanding</u>
<i>(in millions)</i>				
PFG, Principal Financial Services, Inc. ("PFS"), Principal Life as co-borrowers	Credit facility	November 2023	\$ 600.0	\$ —
PFG, PFS, Principal Life and Principal Financial Services V (UK) LTD as co-borrowers	Credit facility	November 2023	200.0	—
Principal International Chile (1)	Unsecured lines of credit		134.5	93.4
Principal Life	Unsecured line of credit	September 2020	60.0	—
Total			\$ 994.5	\$ 93.4

<u>Obligor/Applicant</u>	<u>Financing structure</u>	<u>Maturity</u>	<u>December 31, 2018</u>	
			<u>Capacity</u>	<u>Short-term debt outstanding</u>
<i>(in millions)</i>				
PFG, PFS, Principal Life as co-borrowers	Credit facility	November 2023	\$ 600.0	\$ —
PFG, PFS, Principal Life and Principal Financial Services V (UK) LTD as co-borrowers	Credit facility	November 2023	200.0	—
Principal International Chile (1)	Unsecured lines of credit		141.4	42.9
Principal Life	Unsecured line of credit	September 2019	60.0	—
Total			\$ 1,001.4	\$ 42.9

(1) The unsecured lines of credit can be used for repurchase agreements or other borrowings. Each line has a maturity of less than one year.

Our revolving credit facilities are committed and available for general corporate purposes. These credit facilities also provide 100% back-stop support for our commercial paper program, of which we had no outstanding balances as of December 31, 2019 and 2018. The weighted-average interest rate on short-term borrowings as of December 31, 2019 and 2018, was 3.4% and 3.9%, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

9. Debt – (continued)

Long-Term Debt

The components of long-term debt were as follows:

	December 31, 2019		
	Principal	Net unamortized discount, premium and debt issuance costs	Carrying amount
	<i>(in millions)</i>		
3.3% notes payable, due 2022	\$ 300.0	\$ (1.0)	\$ 299.0
3.125% notes payable, due 2023	300.0	(1.0)	299.0
3.4% notes payable, due 2025	400.0	(2.6)	397.4
3.1% notes payable, due 2026	350.0	(2.5)	347.5
3.7% notes payable, due 2029	500.0	(6.1)	493.9
6.05% notes payable, due 2036	505.6	(2.4)	503.2
4.625% notes payable, due 2042	300.0	(3.2)	296.8
4.35% notes payable, due 2043	300.0	(3.3)	296.7
4.3% notes payable, due 2046	300.0	(3.3)	296.7
4.7% notes payable, due 2055	400.0	(4.9)	395.1
Non-recourse mortgages and notes payable	107.6	1.2	108.8
Total long-term debt	\$ 3,763.2	\$ (29.1)	\$ 3,734.1

	December 31, 2018		
	Principal	Net unamortized discount, premium and debt issuance costs	Carrying amount
	<i>(in millions)</i>		
3.3% notes payable, due 2022	\$ 300.0	\$ (1.5)	\$ 298.5
3.125% notes payable, due 2023	300.0	(1.2)	298.8
3.4% notes payable, due 2025	400.0	(3.0)	397.0
3.1% notes payable, due 2026	350.0	(2.7)	347.3
6.05% notes payable, due 2036	505.6	(2.6)	503.0
4.625% notes payable, due 2042	300.0	(3.3)	296.7
4.35% notes payable, due 2043	300.0	(3.3)	296.7
4.3% notes payable, due 2046	300.0	(3.3)	296.7
4.7% notes payable, due 2055	400.0	(4.9)	395.1
Non-recourse mortgages and notes payable	128.5	1.3	129.8
Total long-term debt	\$ 3,284.1	\$ (24.5)	\$ 3,259.6

Net discount, premium and issuance costs associated with issuing these notes are amortized to expense over the respective terms using the interest method.

On May 7, 2019, we issued \$500.0 million of senior notes. The notes bear interest at 3.7% and will mature in 2029. Interest on the notes is payable semi-annually on May 15 and November 15 each year, beginning on November 15, 2019. The proceeds from these notes, along with available cash, were used to fund the acquisition of the Acquired Business.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

9. Debt – (continued)

On November 10, 2016, we issued \$650.0 million of senior notes. We issued a \$350.0 million series of notes that bear interest at 3.1% and will mature in 2026 and a \$300.0 million series of notes that bear interest at 4.3% and will mature in 2046. Interest on the notes is payable semi-annually on May 15 and November 15 each year, beginning on May 15, 2017. The proceeds from these notes were used to redeem our notes payable due in 2017 and 2019. We incurred a one-time cost to extinguish this debt before the scheduled maturity date.

On May 7, 2015, we issued \$400.0 million of senior notes. The notes bear interest at 3.4% and will mature in 2025. Interest on the notes is payable semi-annually on May 15 and November 15 each year, beginning on November 15, 2015. In addition, on May 7, 2015, we issued \$400.0 million of junior subordinated notes, which are subordinated to all our senior debt. The notes are callable in 2020 and have a maturity date in 2055. The notes initially bear a fixed rate of interest at 4.7% and convert to a floating rate at the date the notes become callable. Interest on the notes is payable semi-annually on May 15 and November 15 each year. After the call date the notes will bear interest at 3-month LIBOR plus 3.044%, reset quarterly and payable in arrears in February, May, August and November each year. We have the right to defer interest payments on the junior subordinated notes for up to 5 years without resulting in a default, during which time interest will be compounded. The proceeds from these notes were used to redeem preferred stock, with the remainder available for general corporate purposes.

On November 16, 2012, we issued \$900.0 million of senior notes. We issued a \$300.0 million series of notes that bore interest at 1.85% and were to mature in 2017. These notes were repaid following our November 2016 debt issuance. We issued a \$300.0 million series of notes that bear interest at 3.125% and will mature in 2023 and a \$300.0 million series of notes that bear interest at 4.35% and will mature in 2043. Interest on the notes is payable semi-annually on May 15 and November 15 each year, beginning on May 15, 2013. The proceeds were used to fund our acquisition of Cuprum.

On September 5, 2012, we issued \$600.0 million of senior notes. We issued a \$300.0 million series of notes that bear interest at 3.3% and will mature in 2022 and a \$300.0 million series of notes that bear interest at 4.625% and will mature in 2042. Interest on the notes is payable semi-annually on March 15 and September 15 each year, beginning on March 15, 2013. The proceeds were used for the repayment of the \$400.0 million aggregate principal amount of notes due in 2014 and to partially fund our acquisition of Cuprum.

On May 18, 2009, we issued \$750.0 million of senior notes. We issued a \$400.0 million series of notes that bore interest at 7.875% and were to mature on May 15, 2014. These notes were repaid following our November 2012 debt issuance. We issued a \$350.0 million series of notes that bore interest at 8.875% and were to mature on May 15, 2019. These notes were repaid following our November 2016 debt issuance. Interest on the notes was payable semi-annually on May 15 and November 15 each year, beginning on November 15, 2009. The proceeds were primarily used to refinance \$440.9 million of notes that matured on August 15, 2009, with the remaining proceeds being used for general corporate purposes.

On October 16 and December 5, 2006, we issued \$500.0 million and \$100.0 million, respectively, of senior notes. The notes bear interest at a rate of 6.05% per year. Interest on the notes is payable semi-annually on April 15 and October 15 each year and began on April 15, 2007. The notes will mature on October 15, 2036. A portion of the proceeds were used to fund the 2006 acquisition of WM Advisors, Inc., with the remaining proceeds being used for general corporate purposes. A tender offer in the fourth quarter of 2016 resulted in redemption of \$94.4 million of the senior notes. We incurred a one-time cost to extinguish this debt before the scheduled maturity date.

The non-recourse mortgages and notes payable are primarily financings for real estate developments. Outstanding principal balances as of December 31, 2019, ranged from \$3.7 million to \$64.2 million per development with interest rates ranging from 3.9% to 4.8%. Outstanding principal balances as of December 31, 2018, ranged from \$3.8 million to \$58.4 million per development with interest rates ranging from 3.9% to 4.8%. Outstanding debt is secured by the underlying real estate properties, which were reported as real estate on our consolidated statements of financial position with a carrying value of \$238.2 million and \$307.3 million as of December 31, 2019 and 2018, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

9. Debt – (continued)

As of December 31, 2019, future annual maturities of long-term debt were as follows (in millions):

Year ending December 31:		
2020	\$	65.9
2021		1.8
2022		300.7
2023		314.0
2024		17.5
Thereafter		3,034.2
Total future maturities of long-term debt	\$	<u>3,734.1</u>

Contingent Funding Agreements for Senior Debt Issuance

On March 8, 2018, we entered into two contingent funding agreements: (1) a 10-year contingent funding agreement with a Delaware trust ("2028 Trust") formed by us in connection with the sale by the trust of \$400.0 million pre-capitalized trust securities redeemable February 15, 2028 ("2028 P-Caps") in a Rule 144A private placement and (2) a 30-year contingent funding agreement with a Delaware trust ("2048 Trust") formed by us in connection with the sale by the trust of \$350.0 million pre-capitalized trust securities redeemable February 15, 2048 ("2048 P-Caps") in a Rule 144A private placement. The trusts invested the proceeds from the sale of the 2028 P-Caps and 2048 P-Caps in a portfolio of principal and interest strips of U.S. Treasury securities. The contingent funding agreements provide us a put option that gives us the right to sell at any time: (1) to the 2028 Trust up to \$400.0 million of its 4.111% Senior Notes due 2028 ("4.111% Senior Notes") and (2) to the 2048 Trust up to \$350.0 million of its 4.682% Senior Notes due 2048 ("4.682% Senior Notes") and receive in exchange a corresponding amount of the principal and interest strips of U.S. Treasury securities held by the trusts. The 4.111% Senior Notes and 4.682% Senior Notes will not be issued unless and until a put option is exercised. We agreed to pay a semi-annual put premium of 1.275% and 1.580% per annum on the unexercised portion of the put option to the 2028 Trust and 2048 Trust, respectively, and to reimburse the trusts for expenses. The put option premiums are recorded in operating expenses in the consolidated statements of operations. The 4.111% Senior Notes and 4.682% Senior Notes will be fully, irrevocably and unconditionally guaranteed by PFS. In addition, our obligations under the put option agreement and the expense reimbursement agreement with the trusts are also guaranteed by PFS. The contingent funding agreements with the trusts provide us with a source of liquid assets, which could be used to meet future financial obligations or to provide additional capital.

The put options described above will be exercised automatically in full if we fail to make certain payments to the trusts, including any failure to pay the put option premium or expense reimbursements when due, if such failure is not cured within 30 days, and upon certain bankruptcy events involving us or PFS. We are also required to exercise the put option in full: (i) if we reasonably believe that our consolidated shareholders' equity, calculated in accordance with U.S. GAAP but excluding AOCI and noncontrolling interest, has fallen below \$4.0 billion, subject to adjustment in certain cases; (ii) upon the occurrence of an event of default under the 4.111% Senior Notes and 4.682% Senior Notes; and (iii) if certain events occur relating to each trust's status as an "investment company" under the Investment Company Act of 1940. In addition, we are required to purchase from the trusts any principal and interest strips of U.S. Treasury securities that are due and not paid.

We have an unlimited right to unwind a prior voluntary exercise of the put options by repurchasing all of the 4.111% Senior Notes and 4.682% Senior Notes held by the trusts in exchange for a corresponding amount of principal and interest strips of U.S. Treasury securities. If the put options have been fully exercised, the 4.111% Senior Notes and 4.682% Senior Notes issued may be redeemed by us prior to their maturity at par or, if greater, at a make-whole redemption price, in each case plus accrued and unpaid interest to the date of redemption. The 2028 P-Caps are to be redeemed by the 2028 Trust on February 15, 2028, or upon any early redemption of the 4.111% Senior Notes. The 2048 P-Caps are to be redeemed by the 2048 Trust on February 15, 2048, or upon any early redemption of the 4.682% Senior Notes.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

10. Income Taxes

Income Taxes (Benefits)

Our income taxes (benefit) were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Current income taxes (benefits):			
U.S. federal	\$ 31.9	\$ (48.9)	\$ (4.4)
State	18.1	10.3	48.9
Foreign	45.6	51.7	38.1
Tax benefit of operating loss carryforward	(3.0)	(13.5)	(21.5)
Total current income taxes (benefits)	<u>92.6</u>	<u>(0.4)</u>	<u>61.1</u>
Deferred income taxes (benefits):			
U.S. federal	108.6	224.3	(208.2)
State	6.9	19.2	42.5
Foreign	41.1	(12.4)	32.3
Total deferred income taxes (benefits)	<u>156.6</u>	<u>231.1</u>	<u>(133.4)</u>
Income taxes (benefits)	<u>\$ 249.2</u>	<u>\$ 230.7</u>	<u>\$ (72.3)</u>

Our income before income taxes was as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Domestic	\$ 1,365.1	\$ 1,658.1	\$ 1,848.5
Foreign	328.2	126.3	403.7
Total income before income taxes	<u>\$ 1,693.3</u>	<u>\$ 1,784.4</u>	<u>\$ 2,252.2</u>

Effective Income Tax Rate

Our provision for income taxes may not have the customary relationship of taxes to income. A reconciliation between the U.S. corporate income tax rate and the effective income tax rate was as follows:

	For the year ended December 31,		
	2019	2018	2017
U.S. corporate income tax rate	21 %	21 %	35 %
Dividends received deduction	(5)	(4)	(8)
Tax credits	(3)	(3)	(2)
Impact of equity method presentation	(2)	(1)	(2)
Impact of the Tax Cuts and Jobs Act	—	(3)	(25)
Interest exclusion from taxable income	—	(1)	(1)
State income taxes	1	1	2
Local country permanent tax adjustments	1	1	—
Other	2	2	(2)
Effective income tax rate	<u>15 %</u>	<u>13 %</u>	<u>(3)%</u>

The U.S. tax reform enacted on December 22, 2017, made broad and complex changes to the U.S. Internal Revenue Code applicable to us. The U.S. statutory tax rate was reduced from 35% to 21% effective January 1, 2018. Other provisions of U.S. tax reform effective January 1, 2018, included, but were not limited to: 1) provisions reducing the dividends received deduction; 2) essentially eliminating U.S. federal income taxes on dividends from foreign subsidiaries; 3) retaining an element of current inclusion of certain earnings of controlled foreign corporations; 4) eliminating the corporate alternative minimum tax (“AMT”); and, 5) changing how existing AMT credits are realized.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

10. Income Taxes – (continued)**Unrecognized Tax Benefits**

Our changes in unrecognized tax benefits were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Balance at beginning of period	\$ 42.1	\$ 194.1	\$ 207.8
Additions based on tax positions related to the current year	0.1	0.8	7.2
Additions for tax positions of prior years	23.1	43.7	20.2
Reductions for tax positions related to the current year	(3.2)	(10.6)	(3.3)
Reductions for tax positions of prior years	(0.5)	(23.2)	(1.1)
Settlements	—	(162.7)	(36.7)
Balance at end of period (1)	<u>\$ 61.6</u>	<u>\$ 42.1</u>	<u>\$ 194.1</u>

(1) If recognized, \$4.4 million of the above amount of unrecognized tax benefits would reduce our 2019 effective income tax rate. We recognize interest and penalties related to uncertain tax positions in operating expenses within the consolidated statements of operations.

As of December 31, 2019, 2018 and 2017, we had recognized \$0.9 million, \$1.6 million and \$125.5 million of accumulated pre-tax interest and penalties related to unrecognized tax benefits, respectively. We do not believe there is a reasonable possibility the total amount of the unrecognized tax benefits will significantly increase or decrease in the next twelve months considering recent settlements and the status of current and pending Internal Revenue Service (“IRS”) examinations. Settlement agreements applicable to tax years 1995 to 2003 were executed in 2018 with the Department of Justice, as previously approved by the Joint Committee of Taxation in August 2017. In 2019, an IRS 30-day letter on examination of tax years 2009 through 2012 was received, and the IRS began its examination of tax years 2015 through 2017.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

10. Income Taxes – (continued)

Net Deferred Income Taxes

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Our significant components of net deferred income taxes were as follows:

	December 31,	
	2019	2018
<i>(in millions)</i>		
Deferred income tax assets:		
Investments, including derivatives	\$ 237.0	\$ 165.6
Insurance liabilities	143.2	—
Net operating and capital loss carryforwards	71.1	80.8
Tax credit carryforwards	106.0	163.3
Employee benefits	338.9	327.3
Foreign currency translation	14.0	28.1
Other deferred income tax assets	45.2	33.8
Gross deferred income tax assets	<u>955.4</u>	<u>798.9</u>
Valuation allowance	(16.7)	(17.0)
Total deferred income tax assets	<u>938.7</u>	<u>781.9</u>
Deferred income tax liabilities:		
Deferred acquisition costs	(562.9)	(615.8)
Investments, including derivatives	(443.7)	(298.1)
Net unrealized gains on available-for-sale securities	(1,039.9)	(98.1)
Real estate	(147.9)	(144.9)
Intangible assets	(342.3)	(310.0)
Insurance liabilities	—	(60.2)
Other deferred income tax liabilities	(75.0)	(71.9)
Total deferred income tax liabilities	<u>(2,611.7)</u>	<u>(1,599.0)</u>
Total net deferred income tax liabilities	<u>\$ (1,673.0)</u>	<u>\$ (817.1)</u>

Our net deferred income taxes by jurisdiction were as follows:

	December 31,	
	2019	2018
<i>(in millions)</i>		
Deferred income tax assets:		
State	\$ 94.9	\$ 108.2
Foreign	28.7	33.1
Net deferred income tax assets	<u>123.6</u>	<u>141.3</u>
Deferred income tax liabilities:		
U.S. federal	(1,507.6)	(708.2)
Foreign	(289.0)	(250.2)
Net deferred income tax liabilities	<u>(1,796.6)</u>	<u>(958.4)</u>
Total net deferred income tax liabilities	<u>\$ (1,673.0)</u>	<u>\$ (817.1)</u>

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

10. Income Taxes – (continued)

In management's judgment, total deferred income tax assets are more likely than not to be realized. Included in the deferred income tax asset are tax carryforwards available to offset future taxable income or income taxes. As of December 31, 2019 and 2018, we had tax credit carryforwards for U.S. federal income tax purposes of \$106.0 million and \$163.3 million, respectively. Alternative minimum, foreign and general business tax credit carryovers were generated during and since the period we utilized net operating losses, primarily attributable to our captive reinsurance companies that joined our consolidated U.S. federal income tax return beginning in 2012 and 2013. The AMT credit carryforwards became refundable in 2018 and will be fully recovered by 2021, and the other tax credits will expire by 2028 if unused. As of December 31, 2019, all accumulated U.S. federal tax credit carryforwards are anticipated to be utilized before expiration; therefore, no valuation allowance has been provided for the related deferred income tax assets.

As of December 31, 2019 and 2018, domestic state net operating loss carryforwards were \$190.4 million and \$309.6 million, respectively, and will expire between 2026 and 2036. As of December 31, 2019 and 2018, foreign net operating loss carryforwards were \$186.1 million and \$191.3 million, respectively, with some expiring in 2019 while others never expire. We maintain valuation allowances by jurisdiction against the deferred income tax assets related to certain of these carryforwards and other items, as utilization of these income tax benefits fail the more likely than not criteria in certain jurisdictions. As of December 31, 2019 and 2018, valuation allowances of \$16.7 million and \$17.0 million, respectively, had been recorded against the income tax benefits associated primarily with foreign net operating loss carryforwards. Adjustments to the valuation allowance will be made if there is a change in management's assessment of the amount of the deferred income tax assets that are more likely than not to be realized. Provisions of the U.S. tax reform did not affect the valuation allowance assessment.

The effects of tax legislation on deferred taxes are recognized in the period of enactment. The State of Iowa coupled with the Internal Revenue Code effective January 1, 2019, and subsequently issued interpretative guidance in the fourth quarter of 2019 on application of the U.S. Global Intangible Low Taxed Income rules. The State of Iowa's interpretation resulted in an \$11.1 million increase in total income tax expense for adjustments to deferred tax assets and liabilities. The primary impact of U.S. tax reform on our 2017 financial results was associated with the effect of reducing the U.S. statutory tax rate from 35% to 21% on our deferred tax balances as of December 31, 2017, and a one-time deemed repatriation tax on certain unremitted earnings of foreign subsidiaries. The effects of the U.S. tax reform were reflected in the 2017 financial statements as determined or as reasonably estimated provisional amounts based on available information subject to interpretation in accordance with the SEC's Staff Accounting Bulletin No. 118 ("SAB 118"). The provisional amounts were primarily associated with estimation of the one-time deemed repatriation tax considering complexity as well as limited and changing technical tax guidance. Further, the provisional amounts also apply in regard to other potential technical interpretations of accounting and taxing authorities related to elements of the U.S. tax reform subject to change. Proposed regulations issued August 1, 2018, clarifying the calculation of the one-time deemed repatriation tax, allowed for final determination of the 2017 provisional amount. The impact of final §965 regulations issued on January 15, 2019, and subsequent clarification was immaterial. The one-time deemed repatriation tax in 2017 was based on the greater of unremitted earnings and profits from foreign operations of our subsidiaries determined as of November 2, 2017 or December 31, 2017, which amounted to \$43.0 million. The provisional amount of \$43.0 million reported in 2017 was adjusted by \$5.9 million in 2018 to \$48.9 million to reflect the SAB 118 final determination within the required one-year measurement period.

Deferred tax liabilities are recognized for taxes payable on the unremitted earnings from foreign operations of our subsidiaries, except where it is our intention to indefinitely reinvest a portion or all of these undistributed earnings. As of December 31, 2019 and 2018, any applicable taxes that would be due upon repatriation were not provided on approximately \$1,001.5 million and \$1,184.0 million, respectively, of such accumulated but undistributed earnings from operations of foreign subsidiaries. We currently do not intend to repatriate these unremitted earnings because we have several liquidity options to fund our domestic operations and obligations. These options include investing and financing activities, such as issuing debt, as well as cash flow and dividends from domestic operations. As of December 31, 2019 and 2018, it was not practicable to determine the amount of the unrecognized deferred tax liability that would arise if foreign earnings were remitted, due to the complexity of our international holding company structure, and other significant tax attributes and varying state tax laws. Under the participation exemption available on distributions post-U.S. tax reform, taxes on remittances would be limited to foreign currency gains or losses, foreign withholding taxes, and state income taxes, which we would anticipate to be immaterial.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

10. Income Taxes – (continued)

As of December 31, 2019, deferred taxes were also not provided on the approximately \$106.2 million of excess book carrying value over tax basis with respect to the original investment in our foreign subsidiaries. A tax liability will be recognized when we no longer plan to indefinitely reinvest a portion or all of these earnings or when we plan to sell a portion or all of our ownership interest.

Other Tax Information

Income tax returns are filed in U.S. federal jurisdiction as well as various states and foreign jurisdictions where we and one or more of our subsidiaries conduct business. Although determined by jurisdiction, with few exceptions our tax uncertainties relate primarily to the U.S. federal jurisdiction. The IRS has completed examination of our consolidated U.S. federal income tax returns for years prior to 2009. A settlement was reached in 2018 with the Department of Justice involving a suit in the Court of Federal Claims, requesting refunds for the years 1995-2003. IRS claims for refund for tax years 2004 through 2008, following settlement of a partnership matter with the Department of Justice in March 2019, are expected to be finalized in 2020 following review by the Joint Committee of Taxation. As of December 31, 2019 and 2018, we had \$195.3 million and \$193.0 million, respectively, of current income tax receivables associated with outstanding audit issues reported as other assets in our consolidated statements of financial position.

We filed claims for refund for tax years 2006 through 2008 in 2015 and tax year 2012 in 2016. The IRS commenced audit of our U.S. federal income tax return for 2009 in the fourth quarter of 2011, 2010 in the first quarter of 2012, 2011 in the first quarter of 2013, 2012 in the third quarter of 2015 and 2015 through 2017 in the first quarter of 2019. The U.S. federal statute of limitations expired for years prior to 2009, except for pending audit issues. The statute was extended until December 31, 2020, for 2009 through 2012, has expired for 2013 and 2014, and was extended or remains open for tax years 2015 through 2017 through October 15, 2021. The ultimate settlement of earlier tax years can be adjusted into subsequent tax years regardless of statute status. We do not expect the results of these audits, subsequent related adjustments or developments in other tax areas for all open tax years to significantly change the possible increase in the amount of unrecognized tax benefits, but the outcome of tax reviews is uncertain and unforeseen results can occur.

We believe we have adequate defenses against, or sufficient provisions for, contested issues, but final resolution could take several years while legal remedies are pursued. Consequently, we do not expect the resolved issues from tax years 1995-2003 or those that might arise in tax years subsequent to 2003 to have a material impact on our net income.

11. Employee and Agent Benefits

We provide a U.S. qualified defined benefit pension plan, covering U.S. employees that meet certain eligibility requirements and certain agents contracted on or before December 31, 2018. A final average pay benefit formula has been in place for plan participants employed prior to January 1, 2002. For agents, this formula ended on December 31, 2018, and for employees the formula will end on December 31, 2022. The final average pay benefit is based on the years of service and generally the employee's or agent's average annual compensation during the last five years prior to the earliest of termination, retirement or the formula end date. A cash balance benefit was added on January 1, 2002. A participant's cash balance account is credited with an amount based on the participant's salary, age and service. These credits accrue with interest. For plan participants hired on and after January 1, 2002, only the cash balance benefit applies. For pre-2002 participants, the pension benefit earned prior to the final average pay formula end date is the greater of the final average pay benefit or the cash balance benefit earned before the end date. They will also earn a new cash balance benefit for service after the formula end date.

In addition, we sponsor non-qualified defined benefit plans subject to Section 409A of the Internal Revenue Code. This plan is for certain highly compensated employees and agents to replace the benefit that cannot be provided by the qualified defined benefit pension plan due to IRS limits. These nonqualified plans generally parallel the qualified plan but offer different payment options. No agent will become a new participant in the nonqualified plan after December 31, 2018.

We provide certain health care, life insurance and long-term care benefits for retired employees, their beneficiaries and covered dependents ("other postretirement benefits").

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)

While virtually all U.S. employees continue to have access to the post-retirement health care and life insurance benefits, only those U.S. employees that were hired prior to January 1, 2002, and retired prior to January 1, 2011, (post-65 medical) or January 1, 2020, (life insurance and pre-65 medical) were eligible to receive subsidized benefits. All others pay the full cost of coverage. The long-term care plan was subsidized only for those who retired prior to January 1, 2000, and is no longer accessible. The subsidy level for all benefits varies by plan, age, service and retirement date.

The funding policy for all employee benefit plans is to fund the cost of providing pension benefits in the years that the employees and agents are providing service, taking into account the funding status of the trust. For the qualified defined benefit plan, this policy will be subject to an amount no lower than the minimum annual contribution required under the Employee Retirement Income Security Act (“ERISA”), and, generally, not greater than the maximum amount that can be deducted for U.S. federal income tax purposes. While we designate assets to cover the computed liability of the nonqualified pension plan, the assets are not included as part of the asset balances presented in this footnote as they do not qualify as plan assets in accordance with U.S. GAAP.

Obligations and Funded Status

The plans' combined funded status, reconciled to amounts recognized in the consolidated statements of financial position, was as follows:

	<u>Pension benefits</u>		<u>Other postretirement benefits</u>	
	<u>December 31,</u>		<u>December 31,</u>	
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
	<i>(in millions)</i>			
Change in benefit obligation				
Benefit obligation at beginning of year	\$ (3,239.2)	\$ (3,383.6)	\$ (98.9)	\$ (109.1)
Service cost	(66.0)	(73.0)	—	(0.1)
Interest cost	(126.5)	(119.5)	(3.7)	(3.5)
Actuarial gain (loss)	(506.4)	220.9	(4.8)	7.9
Participant contributions	—	—	(4.4)	(3.7)
Benefits paid	123.6	109.6	12.2	9.7
Plan amendments	122.4	6.4	(1.8)	—
Other	—	—	—	(0.1)
Benefit obligation at end of year	<u>\$ (3,692.1)</u>	<u>\$ (3,239.2)</u>	<u>\$ (101.4)</u>	<u>\$ (98.9)</u>
Change in plan assets				
Fair value of plan assets at beginning of year	\$ 2,498.2	\$ 2,542.2	\$ 643.9	\$ 696.8
Actual return on plan assets	520.9	(122.2)	95.5	(47.7)
Employer contribution	30.5	187.8	1.2	0.8
Participant contributions	—	—	4.4	3.7
Benefits paid	(123.6)	(109.6)	(12.2)	(9.7)
Fair value of plan assets at end of year	<u>\$ 2,926.0</u>	<u>\$ 2,498.2</u>	<u>\$ 732.8</u>	<u>\$ 643.9</u>
Amount recognized in statement of financial position				
Other assets	\$ —	\$ —	\$ 635.1	\$ 546.9
Other liabilities	(766.1)	(741.0)	(3.7)	(1.9)
Total	<u>\$ (766.1)</u>	<u>\$ (741.0)</u>	<u>\$ 631.4</u>	<u>\$ 545.0</u>
Amount recognized in accumulated other comprehensive (income) loss				
Total net actuarial (gain) loss	\$ 737.5	\$ 673.3	\$ (17.4)	\$ 40.2
Prior service benefit	(137.8)	(26.7)	(7.3)	(10.2)
Pre-tax accumulated other comprehensive (income) loss	<u>\$ 599.7</u>	<u>\$ 646.6</u>	<u>\$ (24.7)</u>	<u>\$ 30.0</u>

The accumulated benefit obligation for all defined benefit pension plans was \$3,599.5 million and \$3,029.0 million as of December 31, 2019 and 2018, respectively.

Principal Financial Group, Inc.**Notes to Consolidated Financial Statements – (continued)****December 31, 2019****11. Employee and Agent Benefits – (continued)**

Employer contributions to the pension plans include contributions made directly to the qualified pension plan assets and contributions from corporate assets to pay nonqualified pension benefits. Benefits paid from the pension plans include both qualified and nonqualified plan benefits. Nonqualified pension plan assets are not included as part of the asset balances presented in this footnote. The nonqualified pension plan assets are held in Rabbi trusts for the benefit of all nonqualified plan participants. The assets held in a Rabbi trust are available to satisfy the claims of general creditors only in the event of bankruptcy. Therefore, these assets are fully consolidated in our consolidated statements of financial position and are not reflected in our funded status as they do not qualify as plan assets under U.S. GAAP. The market value of assets held in these trusts was \$377.8 million and \$348.8 million as of December 31, 2019 and 2018, respectively.

Pension Plan Changes and Plan Gains/Losses

During the second quarter of 2019, we amended The Principal Pension Plan and The Principal Financial Group Nonqualified Defined Benefit Plan for Employees to end traditional benefit accruals as of December 31, 2022, and begin cash balance accruals January 1, 2023. We remeasured the associated plan assets and pension benefit obligations as of May 31, 2019, resulting in a net actuarial loss of \$59.0 million and a total plan amendment gain of \$122.4 million. The net actuarial loss is composed of an increase in benefit obligation of \$237.6 million resulting from the reduction in discount rate compared to December 31, 2018, partially offset by a \$178.6 million asset gain. The net plan amendment gain was recorded in AOCI and will be amortized over the average future working lifetimes of the plans.

On January 1, 2010, benefits under the Principal Pension Plan were frozen for certain participants. The nonqualified plan was amended January 1, 2019, to change the basis for determining lump sums. This gave rise to a total prior service benefit of \$6.4 million as of December 31, 2018. The qualified plan and agent nonqualified plan were amended on December 28, 2017, to freeze final average pay accruals for agents after December 31, 2018, but continue cash balance accruals. This gave rise to a total prior service benefit of \$23.1 million as of December 31, 2017. The amendments also freeze plan eligibility for agents under both the qualified and nonqualified plans.

For the year ended December 31, 2019, the pension plans had an actuarial loss primarily due to a decrease in the discount rate. For the year ended December 31, 2018, the pension plans had an actuarial gain primarily due to an increase in the discount rate.

Other Postretirement Plan Changes and Plan Gains/Losses

For the year ended December 31, 2019, the other postretirement benefit plans had an actuarial loss primarily due to a decrease in the discount rate and a gain from actual and projected medical claims cost being lower than expected. For the year ended December 31, 2018, the other postretirement benefit plans had an actuarial gain primarily due to an increase in the discount rate and a gain from actual and projected medical claims cost being lower than expected.

Information for Pension Plans With an Accumulated Benefit Obligation in Excess of Plan Assets

For 2019 and 2018, both the qualified and nonqualified plans had accumulated benefit obligations in excess of plan assets. As noted previously, the nonqualified plans have assets that are deposited in trusts that fail to meet the U.S. GAAP requirements to be included in plan assets; however, these assets are included in our consolidated statements of financial position.

	December 31,	
	2019	2018
	<i>(in millions)</i>	
Projected benefit obligation	\$ 3,692.1	\$ 3,239.2
Accumulated benefit obligation	3,599.5	3,029.0
Fair value of plan assets	2,926.0	2,498.2

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)
Information for Other Postretirement Benefit Plans With an Accumulated Postretirement Benefit Obligation in Excess of Plan Assets

	December 31,	
	2019	2018
	<i>(in millions)</i>	
Accumulated postretirement benefit obligation	\$ 3.8	\$ 2.1
Fair value of plan assets	—	0.2

Components of Net Periodic Benefit Cost

	Pension benefits			Other postretirement benefits		
	For the year ended December 31,					
	2019	2018	2017	2019	2018	2017
	<i>(in millions)</i>					
Service cost	\$ 66.0	\$ 73.0	\$ 67.1	\$ —	\$ 0.1	\$ 0.1
Interest cost	126.5	119.5	124.4	3.7	3.5	3.9
Expected return on plan assets	(148.8)	(157.0)	(144.2)	(33.2)	(33.6)	(27.5)
Amortization of prior service benefit	(11.3)	(3.4)	(2.3)	(1.2)	(13.9)	(34.6)
Recognized net actuarial (gain) loss	70.1	67.8	68.0	0.1	(1.5)	—
Net periodic benefit cost (income)	<u>\$ 102.5</u>	<u>\$ 99.9</u>	<u>\$ 113.0</u>	<u>\$ (30.6)</u>	<u>\$ (45.4)</u>	<u>\$ (58.1)</u>

The components of net periodic benefit cost including the service cost component are included in operating expenses on the consolidated statements of operations.

The pension plans' actuarial gains and losses are amortized using a straight-line amortization method over the average remaining service period of plan participants. For the qualified pension plan, gains and losses are amortized without use of the 10% allowable corridor. For the nonqualified pension plans and other postretirement benefit plans, the corridors allowed are used.

	Pension benefits		Other postretirement benefits	
	For the year ended December 31,			
	2019	2018	2019	2018
	<i>(in millions)</i>			
Other changes recognized in accumulated other comprehensive (income) loss				
Net actuarial (gain) loss	\$ 134.3	\$ 58.3	\$ (57.5)	\$ 73.4
Prior service (benefit) cost	(122.4)	(6.4)	1.7	—
Amortization of gain (loss)	(70.1)	(67.8)	(0.1)	1.5
Amortization of prior service benefit	11.3	3.4	1.2	13.9
Total recognized in pre-tax accumulated other comprehensive (income) loss	<u>\$ (46.9)</u>	<u>\$ (12.5)</u>	<u>\$ (54.7)</u>	<u>\$ 88.8</u>
Total recognized in net periodic benefit cost and pre-tax accumulated other comprehensive (income) loss	<u>\$ 55.6</u>	<u>\$ 87.4</u>	<u>\$ (85.3)</u>	<u>\$ 43.4</u>

Net actuarial (gain) loss and net prior service cost benefit have been recognized in AOCI.

The estimated net actuarial (gain) loss and prior service cost (benefit) that will be amortized from AOCI into net periodic benefit cost for the pension benefits during the 2020 fiscal year are \$75.4 million and \$(16.8) million, respectively. The estimated net actuarial (gain) loss and prior service cost (benefit) for the postretirement benefits that will be amortized from AOCI into net periodic benefit cost during the 2020 fiscal year are \$(0.1) million and \$(0.9) million, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)

Assumptions

Weighted-average assumptions used to determine benefit obligations as disclosed under the Obligations and Funded Status section

	Pension benefits	
	For the year ended December 31,	
	2019	2018
Discount rate	3.25 %	4.15 %
Rate of compensation increase:		
Cash balance benefit	4.95 %	4.94 %
Traditional benefit	2.98 %	2.73 %
	Other postretirement benefits	
	For the year ended December 31,	
	2019	2018
Discount rate	2.95 %	3.95 %
Rate of compensation increase	N/A	N/A

Weighted average assumptions used to determine net periodic benefit cost

	Pension benefits		
	For the year ended December 31,		
	2019	2018	2017
Discount rate (1)	3.70 %	3.60 %	4.15 %
Expected long-term return on plan assets	5.95 %	6.30 %	6.70 %
Rate of compensation increase:			
Cash balance benefit	4.94 %	4.96 %	5.02 %
Traditional benefit	2.73 %	2.77 %	2.82 %
	Other postretirement benefits		
	For the year ended December 31,		
	2019	2018	2017
Discount rate	3.95 %	3.35 %	3.75 %
Expected long-term return on plan assets	5.19 %	4.85 %	4.40 %
Rate of compensation increase	N/A	2.39 %	2.44 %

- (1) During the second quarter of 2019, we amended The Principal Pension Plan and The Principal Financial Group Nonqualified Defined Benefit Plan for Employees to end traditional benefit accruals as of December 31, 2022, and begin cash balance accruals January 1, 2023. We remeasured the associated plan assets and pension benefit obligations as of May 31, 2019. A discount rate of 4.15% was used until the remeasurement date at which time a discount rate of 3.70% was used. See "Pension Plan Changes and Plan Gains/Losses" for further details.

The assumed salary growth rates used to project benefits for the projected benefit obligation are age-based for home office employees. The rate labeled cash balance benefit (relative to employees accruing a cash balance) is the lifecount-weighted average rate of salary growth in the coming year only, as the impact of salary assumption for cash balance benefits are limited to the upcoming year service cost. The rate labeled traditional benefit (relative to employees still accruing a final average pay benefit) is the lifecount-weighted average (at each age) of the single annual growth rate at the age that is equivalent to applying the scale from that age to assumed termination or retirement ages.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)

For the pension benefits, the discount rate is determined by projecting future benefit payments inherent in the projected benefit obligation and discounting those cash flows using a spot yield curve for high quality corporate bonds. The plans' expected benefit payments are discounted to determine a present value using the yield curve and the discount rate is the level rate that produces the same present value. The expected return on plan assets is the long-term rate we expect to be earned based on the long-term investment policy of the plans and the various classes of invested funds. A weighted average rate was developed based on those overall rates and the target asset allocation of the plans.

For other postretirement benefits, the discount rate is determined by projecting future benefit payments inherent in the accumulated postretirement benefit obligation and discounting those cash flows using a spot yield curve for high quality corporate bonds. The plans' expected benefit payments are discounted to determine a present value using the yield curve and the discount rate is the level rate that produces the same present value. The 5.19% expected long-term return on plan assets for 2019 was based on the weighted average expected long-term asset returns for the medical, life and long-term care plans. The expected long-term rates for the home office medical/life, agent medical/life, long-term care and post-65 medical plans were 5.25%, 4.95%, 4.35% and 5.00%, respectively.

Assumed Health Care Cost Trend Rates Used to Determine Net Periodic Benefit Cost

	December 31,	
	2019	2018
Health care cost trend rate assumed for next year under age 65	6.75 %	7.00 %
Health care cost trend rate assumed for next year age 65 and over	6.00 %	6.00 %
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	4.50 %	4.50 %
Year that the rate reaches the ultimate trend rate (under age 65)	2029	2026
Year that the rate reaches the ultimate trend rate (65 and older)	2026	2025

Assumed health care cost trend rates have a significant effect on the amounts reported for the health care plans. A one-percentage-point change in assumed health care cost trend rates would have the following effects:

	1-percentage point increase	1-percentage point decrease
	<i>(in millions)</i>	
Effect on total of service cost and interest cost components	\$ —	\$ —
Effect on accumulated postretirement benefit obligation	(1.2)	1.1

Pension Plan and Other Postretirement Benefit Plan Assets

Fair value is defined as the price that would be received to sell an asset in an orderly transaction between market participants at the measurement date (an exit price). The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three levels.

- Level 1 – Fair values are based on unadjusted quoted prices in active markets for identical assets.
- Level 2 – Fair values are based on inputs other than quoted prices within Level 1 that are observable for the asset, either directly or indirectly.
- Level 3 – Fair values are based on significant unobservable inputs for the asset.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

11. Employee and Agent Benefits – (continued)

Our pension plan assets consist of investments in pooled separate accounts and single client separate accounts. Net asset value (“NAV”) of the pooled separate accounts is calculated in a manner consistent with U.S. GAAP for investment companies and is determinative of their fair value. Several of the pooled separate accounts invest in publicly quoted mutual funds or actively managed stocks. The fair value of the underlying mutual funds or stocks is used to determine the NAV of the separate account, which is not publicly quoted. Some of the pooled separate accounts also invest in fixed income securities. The fair value of the underlying securities is based on quoted prices of similar assets and used to determine the NAV of the separate account. Some of the pooled separate accounts invest in real estate properties. The fair value is based on discounted cash flow valuation models that utilize public real estate market data inputs such as transaction prices, market rent growth, vacancy levels, leasing absorption, market capitalization rates and discount rates.

The single client separate accounts invest in fixed income securities, hedge funds, a pooled separate account investment and other assets. The fixed income securities include U.S. Treasury bonds for which the fair value is based on quoted prices of identical assets in active markets. The fair value of the other fixed income securities is determined either from prices obtained from third party pricing vendors who use observable market information to determine prices or from internal models using substantially all observable inputs or a matrix pricing valuation approach. The hedge funds are measured at fair value using the NAV per share (or its equivalent) practical expedient and have not been classified in the fair value hierarchy. The NAV of the pooled separate account investment is calculated in a manner consistent with U.S. GAAP for investment companies and is determinative of its fair value. The carrying amounts of other assets, which are highly liquid in nature, are used to approximate fair value.

Our other postretirement benefit plan assets consist of cash, investments in fixed income security portfolios, investments in equity security portfolios, investments in alternative mutual fund portfolios and investment in a real estate mutual fund. Because of the nature of cash, its carrying amount approximates fair value. The fair value of fixed income investment funds, U.S. equity portfolios and international equity portfolios is based on quoted prices in active markets for identical assets. The fair value of the alternative mutual fund portfolios and the real estate mutual fund are based on quoted market prices, which represent the NAV of shares held by the other postretirement benefit plan.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)

Pension Plan Assets

The fair value of the qualified pension plan's assets by asset category as of the most recent measurement date was as follows:

Asset category	December 31, 2019				
	Assets measured at fair value	Amount measured at net asset value	Fair value hierarchy level		
			Level 1	Level 2	Level 3
<i>(in millions)</i>					
Pooled separate account investments:					
U.S. large cap equity portfolios (1)	\$ 509.7	\$ —	\$ —	\$ 509.7	\$ —
U.S. small/mid cap equity portfolios (2)	90.9	—	—	90.9	—
Balanced asset portfolios (3)	78.5	—	—	78.5	—
International equity portfolios (4)	328.6	—	—	328.6	—
Real estate investment portfolios (5)	193.5	—	—	193.5	—
Single client separate account investments:					
Fixed income securities:					
U.S. government and agencies	485.9	—	485.9	—	—
States and political subdivisions	26.1	—	—	26.1	—
Corporate	1,009.1	—	—	1,009.1	—
Commercial mortgage-backed securities	32.7	—	—	32.7	—
Other debt obligations	7.1	—	—	7.1	—
Hedge funds (6)	129.0	129.0	—	—	—
Pooled separate account investment (7)	31.5	—	—	31.5	—
Other (8)	3.4	—	—	3.4	—
Total	\$ 2,926.0	\$ 129.0	\$ 485.9	\$ 2,311.1	\$ —

Asset category	December 31, 2018				
	Assets measured at fair value	Amount measured at net asset value	Fair value hierarchy level		
			Level 1	Level 2	Level 3
<i>(in millions)</i>					
Pooled separate account investments:					
U.S. large cap equity portfolios (1)	\$ 387.7	\$ —	\$ —	\$ 387.7	\$ —
U.S. small/mid cap equity portfolios (2)	64.4	—	—	64.4	—
Balanced asset portfolios (3)	116.3	—	—	116.3	—
International equity portfolios (4)	220.9	—	—	220.9	—
Real estate investment portfolios (5)	133.6	—	—	133.6	—
Single client separate account investments:					
Fixed income securities:					
U.S. government and agencies	418.8	—	418.8	—	—
States and political subdivisions	24.0	—	—	24.0	—
Corporate	934.5	—	—	934.5	—
Commercial mortgage-backed securities	30.7	—	—	30.7	—
Other debt obligations	8.0	—	—	8.0	—
Hedge funds (6)	124.7	124.7	—	—	—
Pooled separate account investment (7)	23.9	—	—	23.9	—
Other (8)	10.7	—	0.3	10.4	—
Total	\$ 2,498.2	\$ 124.7	\$ 419.1	\$ 1,954.4	\$ —

- (1) The portfolios invest primarily in publicly traded equity securities of large U.S. companies.
(2) The portfolios invest primarily in publicly traded equity securities of mid-sized and small U.S. companies.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)

- (3) The portfolios are a combination of underlying fixed income and equity investment options. These investment options may include balanced, asset allocation, target-date and target-risk investment options. Although typically lower risk than investment options that invest solely in equities, all investment options in this category have the potential to lose value.
- (4) The portfolios invest primarily in publicly traded equity securities of non-U.S. companies.
- (5) The portfolio invests primarily in U.S. commercial real estate properties through a separate account.
- (6) The hedge funds have varying investment strategies that also have a variety of redemption terms and conditions. We do not have unfunded commitments associated with these hedge funds.
- (7) The single client separate accounts invest in a money market pooled separate account.
- (8) Includes cash and net (payables)/receivables for the single client separate accounts.

We have established an investment policy that provides the investment objectives and guidelines for the pension plan. Our investment strategy is to achieve the following:

- Obtain a reasonable long-term return consistent with the level of risk assumed and at a cost of operation within prudent levels. Performance benchmarks are monitored.
- Ensure sufficient liquidity to meet the emerging benefit liabilities for the plan.
- Provide for diversification of assets in an effort to avoid the risk of large losses and maximize the investment return to the pension plan consistent with market and economic risk.

In administering the qualified pension plan's asset allocation strategy, we consider the projected liability stream of benefit payments, the relationship between current and projected assets of the plan and the projected actuarial liabilities streams, the historical performance of capital markets adjusted for the perception of future short- and long-term capital market performance and the perception of future economic conditions.

According to our investment policy, the target asset allocation for the qualified plan is:

<u>Asset category</u>	<u>Target allocation</u>	
Fixed income security portfolios	25 %	- 80 %
Equity portfolios	5 %	- 60 %
Real estate investment portfolios		10 %
Alternatives		5 %

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)

Other Postretirement Benefit Plan Assets

The fair value of the other postretirement benefit plans' assets by asset category as of the most recent measurement date was as follows:

Asset category	December 31, 2019			
	Assets measured at fair value	Fair value hierarchy level		
		Level 1	Level 2	Level 3
	<i>(in millions)</i>			
Cash and cash equivalents	\$ 0.6	\$ 0.6	\$ —	\$ —
Fixed income security portfolios:				
Fixed income investment funds (1)	370.5	331.0	39.5	—
U.S. equity portfolios (2)	254.5	210.3	44.2	—
International equity portfolios (3)	107.2	88.9	18.3	—
Total	\$ 732.8	\$ 630.8	\$ 102.0	\$ —

Asset category	December 31, 2018			
	Assets measured at fair value	Fair value hierarchy level		
		Level 1	Level 2	Level 3
	<i>(in millions)</i>			
Cash and cash equivalents	\$ 0.3	\$ 0.3	\$ —	\$ —
Fixed income security portfolios:				
Fixed income investment funds (1)	203.7	166.2	37.5	—
U.S. equity portfolios (2)	135.8	101.0	34.8	—
International equity portfolios (3)	61.2	47.4	13.8	—
Alternative mutual fund portfolios (4)	235.4	235.4	—	—
Real estate mutual fund (5)	7.5	7.5	—	—
Total	\$ 643.9	\$ 557.8	\$ 86.1	\$ —

- (1) The portfolios invest in various fixed income securities, primarily of U.S. origin. These include, but are not limited to, corporate bonds, residential mortgage-backed securities, commercial mortgage-backed securities, U.S. Treasury securities, agency securities, asset-backed securities and collateralized mortgage obligations.
- (2) The portfolios invest primarily in publicly traded equity securities of large U.S. companies.
- (3) The portfolios invest primarily in publicly traded equity securities of non-U.S. companies.
- (4) The portfolios invest primarily in equities, corporate bonds, foreign currencies, convertible securities and derivatives.
- (5) The mutual fund invests primarily in U.S. commercial real estate properties.

As of December 31, 2019 and 2018, \$101.8 million and \$86.1 million of assets, respectively, in cash, fixed income security portfolios, U.S. equity portfolios and international equity portfolios were included in a trust owned life insurance contract.

The investment strategies for the other postretirement benefit plans are similar to those employed by the qualified pension plan. According to our investment policy, the target asset allocation for the other postretirement benefit plans is:

Asset category	Target allocation
U.S. equity portfolios	35 %
International equity portfolios	15 %
Fixed income security portfolios	50 %

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)**Contributions**

Our funding policy for the qualified pension plan is to fund the plan annually in an amount at least equal to the minimum annual contribution required under ERISA and, generally, not greater than the maximum amount that can be deducted for U.S. federal income tax purposes. We do not anticipate contributions will be needed to satisfy the minimum funding requirements of ERISA for our qualified plan. We are unable to estimate the amount that may be contributed, but it is possible that we may fund the plans in 2020 up to \$35.0 million. This includes funding for both our qualified and nonqualified pension plans. While we designate assets to cover the computed liability of the nonqualified plan, the assets are not included as part of the asset balances presented in this footnote as they do not qualify as plan assets in accordance with U.S. GAAP. We may contribute to our other postretirement benefit plans in 2020 pending future analysis.

Estimated Future Benefit Payments

The estimated future benefit payments, which reflect expected future service, are:

	<u>Pension benefits</u>	<u>Other postretirement benefits (gross benefit payments, including prescription drug benefits)</u>
	<i>(in millions)</i>	
Year ending December 31:		
2020	\$ 164.5	\$ 14.0
2021	150.1	12.2
2022	161.4	11.5
2023	170.1	10.6
2024	177.9	9.8
2025-2029	1,014.6	37.9

The above table reflects the total estimated future benefits to be paid from the plan, including both our share of the benefit cost and the participants' share of the cost, which is funded by their contributions to the plan.

The assumptions used in calculating the estimated future benefit payments are the same as those used to measure the benefit obligation for the year ended December 31, 2019.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

11. Employee and Agent Benefits – (continued)
Defined Benefit Pension Plans Supplemental Information

Certain key summary data is shown below separately for qualified and nonqualified plans.

	For the year ended December 31,					
	2019			2018		
	Qualified Plan	Nonqualified Plan	Total	Qualified Plan	Nonqualified Plan	Total
	<i>(in millions)</i>					
Amount recognized in statement of financial position						
Other assets	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Other liabilities	(258.7)	(507.4)	(766.1)	(266.3)	(474.7)	(741.0)
Total	<u>\$ (258.7)</u>	<u>\$ (507.4)</u>	<u>\$ (766.1)</u>	<u>\$ (266.3)</u>	<u>\$ (474.7)</u>	<u>\$ (741.0)</u>
Amount recognized in accumulated other comprehensive loss						
Total net actuarial loss	\$ 567.6	\$ 169.9	\$ 737.5	\$ 544.4	\$ 128.9	\$ 673.3
Prior service benefit	(110.3)	(27.5)	(137.8)	(11.0)	(15.7)	(26.7)
Pre-tax accumulated other comprehensive loss	<u>\$ 457.3</u>	<u>\$ 142.4</u>	<u>\$ 599.7</u>	<u>\$ 533.4</u>	<u>\$ 113.2</u>	<u>\$ 646.6</u>
Components of net periodic benefit cost						
Service cost	\$ 59.7	\$ 6.3	\$ 66.0	\$ 65.7	\$ 7.3	\$ 73.0
Interest cost	108.0	18.5	126.5	102.0	17.5	119.5
Expected return on plan assets	(148.8)	—	(148.8)	(157.0)	—	(157.0)
Amortization of prior service benefit	(7.8)	(3.5)	(11.3)	(1.5)	(1.9)	(3.4)
Recognized net actuarial loss	57.6	12.5	70.1	53.6	14.2	67.8
Net periodic benefit cost	<u>\$ 68.7</u>	<u>\$ 33.8</u>	<u>\$ 102.5</u>	<u>\$ 62.8</u>	<u>\$ 37.1</u>	<u>\$ 99.9</u>
Other changes recognized in accumulated other comprehensive (income) loss						
Net actuarial (gain) loss	\$ 80.8	\$ 53.5	\$ 134.3	\$ 81.7	\$ (23.4)	\$ 58.3
Prior service benefit	(107.2)	(15.2)	(122.4)	—	(6.4)	(6.4)
Amortization of net loss	(57.6)	(12.5)	(70.1)	(53.6)	(14.2)	(67.8)
Amortization of prior service benefit	7.8	3.5	11.3	1.5	1.9	3.4
Total recognized in pre-tax accumulated other comprehensive (income) loss	<u>\$ (76.2)</u>	<u>\$ 29.3</u>	<u>\$ (46.9)</u>	<u>\$ 29.6</u>	<u>\$ (42.1)</u>	<u>\$ (12.5)</u>
Total recognized in net periodic benefit cost and pre-tax accumulated other comprehensive (income) loss	<u>\$ (7.5)</u>	<u>\$ 63.1</u>	<u>\$ 55.6</u>	<u>\$ 92.4</u>	<u>\$ (5.0)</u>	<u>\$ 87.4</u>

Defined Contribution and Deferred Compensation Plans

In addition, we have defined contribution plans that are generally available to all U.S. employees and agents. Eligible participants could not contribute more than \$19,000 of their compensation to the plans in 2019. Effective January 1, 2006, we made several changes to the retirement programs. In general, the pension and supplemental executive retirement plan benefit formulas were reduced and the 401(k) matching contribution was increased. Employees who were ages 47 or older with at least ten years of service on December 31, 2005, could elect to retain the prior benefit provisions and forgo receipt of the additional matching contributions. The employees who elected to retain the prior benefit provisions are referred to as “Grandfathered Choice Participants.” We match the Grandfathered Choice Participant's contribution at a 50% contribution rate up to a maximum matching contribution of 3% of the participant's compensation. For all other participants, we match the participant's contributions at a 75% contribution rate up to a maximum matching contribution of 6% of the participant's compensation. The defined contribution plans allow employees to choose among various investment options, including our common stock, which is available through our Employee Stock Ownership Plan (“ESOP”). We contributed \$55.3 million, \$53.4 million and \$48.9 million in 2019, 2018 and 2017, respectively, to our qualified defined contribution plans.

The number of shares of our common stock allocated to participants in the ESOP was 2.2 million and 2.4 million as of December 31, 2019 and 2018, respectively. As of December 31, 2019 and 2018, the fair value of the ESOP, which includes earned and unearned common stock, was \$119.8 million and \$105.1 million, respectively. The ESOP's total assets include our common stock and cash. The ESOP purchases our common stock on the open market. The number of shares of our common stock held within the ESOP is treated as outstanding in both our basic and diluted earnings per share calculations.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

11. Employee and Agent Benefits – (continued)

We also have nonqualified deferred compensation plans available to select employees and agents that allow them to defer compensation amounts in excess of limits imposed by U.S. federal tax law with respect to the qualified plans. For certain nonqualified deferred compensation plans that include an employer matching contribution, in 2019 we matched the Grandfathered Choice Participant's deferral at a 50% match deferral rate up to a maximum matching deferral of 3% of the participant's compensation. For all other participants in nonqualified deferred compensation plans that include an employer matching contribution, we matched the participant's deferral at a 75% match deferral rate up to a maximum matching deferral of 6% of the participant's compensation. We contributed \$3.2 million, \$3.4 million and \$3.8 million in 2019, 2018 and 2017, respectively, to our nonqualified deferred compensation plans.

12. Contingencies, Guarantees, Indemnifications and Leases

Litigation and Regulatory Contingencies

We are regularly involved in litigation, both as a defendant and as a plaintiff, but primarily as a defendant. Litigation naming us as a defendant ordinarily arises out of our business operations as a provider of asset management and accumulation products and services, individual life insurance, specialty benefits insurance and our investment activities. Some of the lawsuits may be class actions, or purport to be, and some may include claims for unspecified or substantial punitive and treble damages.

We may discuss such litigation in one of three ways. We accrue a charge to income and disclose legal matters for which the chance of loss is probable and for which the amount of loss can be reasonably estimated. We may disclose contingencies for which the chance of loss is reasonably possible and provide an estimate of the possible loss or range of loss or a statement that such an estimate cannot be made. Finally, we may voluntarily disclose loss contingencies for which the chance of loss is remote in order to provide information concerning matters that potentially expose us to possible losses.

In addition, regulatory bodies such as state insurance departments, the SEC, the Financial Industry Regulatory Authority ("FINRA"), the Department of Labor ("DOL") and other regulatory agencies in the U.S. and in international locations in which we do business, regularly make inquiries and conduct examinations or investigations concerning our compliance with, among other things, insurance laws, securities laws, ERISA and laws governing the activities of broker-dealers. We receive requests from regulators and other governmental authorities relating to industry issues and may receive additional requests, including subpoenas and interrogatories, in the future.

On November 12, 2014, Frederick Rozo filed a class action lawsuit in the United States District Court for the Southern District of Iowa against Principal Life and us. We were later dismissed as a defendant. The Plaintiff alleged that defendants breached fiduciary duties and engaged in prohibited transactions under ERISA in connection with a general account guaranteed product known as the Principal Fixed Income Option ("PFIO"). On May 12, 2017, the district court certified a nationwide class of participants and beneficiaries who had funds invested in one of the PFIO contracts. On September 25, 2018, the district court granted Principal Life's motion for summary judgment. On February 3, 2020, the Eighth Circuit Court of Appeals reversed that ruling and remanded the case back to the district court. Principal Life will continue to aggressively defend the case.

While the outcome of any pending or future litigation or regulatory matter cannot be predicted, management does not believe any such matter will have a material adverse effect on our business or financial position. As of December 31, 2019, we had no estimated loss accrued related to the legal matter discussed above because we believe the chance of loss from this matter is not probable and the amount of loss cannot be reasonably estimated.

To the extent such matters present a reasonably possible chance of loss, we are generally not able to estimate the possible loss or range of loss associated therewith. The outcome of such matters is always uncertain and unforeseen results can occur. It is possible that such outcomes could require us to pay damages or make other expenditures or establish accruals in amounts that we could not estimate at December 31, 2019.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

12. Contingencies, Guarantees, Indemnifications and Leases – (continued)

Guarantees and Indemnifications

In the normal course of business, we have provided guarantees to third parties primarily related to former subsidiaries and joint ventures. The terms of these agreements range in duration and often are not explicitly defined. The maximum exposure under these agreements as of December 31, 2019, was approximately \$118.0 million. At inception, the fair value of such guarantees was insignificant. In addition, we believe the likelihood is remote that material payments will be required. Therefore, any liability accrued within our consolidated statements of financial position is insignificant. Should we be required to perform under these guarantees, we generally could recover a portion of the loss from third parties through recourse provisions included in agreements with such parties, the sale of assets held as collateral that can be liquidated in the event performance is required under the guarantees or other recourse generally available to us; therefore, such guarantees would not result in a material adverse effect on our business or financial position. While the likelihood is remote, such outcomes could materially affect net income in a particular quarter or annual period. Furthermore, in connection with our P-Caps contingent funding agreements, we are required to purchase any principal and interest strips of U.S. Treasury securities that are due and not paid from the associated unconsolidated trusts. The maximum exposure under these agreements as of December 31, 2019, was \$750.0 million. See Note 9, Debt, for further details.

We manage mandatory privatized social security funds in Chile. By regulation, we have a required minimum guarantee on the funds' relative return. Because the guarantee has no limitation with respect to duration or amount, the maximum exposure of the guarantee in the future is indeterminable.

We are also subject to various other indemnification obligations issued in conjunction with divestitures, acquisitions and financing transactions whose terms range in duration and often are not explicitly defined. Certain portions of these indemnifications may be capped, while other portions are not subject to such limitations; therefore, the overall maximum amount of the obligation under the indemnifications cannot be reasonably estimated. At inception, the fair value of such indemnifications was insignificant. In addition, we believe the likelihood is remote that material payments will be required. Therefore, any liability accrued within our consolidated statements of financial position is insignificant. While we are unable to estimate with certainty the ultimate legal and financial liability with respect to these indemnifications, we believe that performance under these indemnifications would not result in a material adverse effect on our business or financial position. While the likelihood is remote, performance under these indemnifications could materially affect net income in a particular quarter or annual period.

Guaranty Funds

Under state insurance guaranty fund laws, insurers doing business in a state can be assessed, up to prescribed limits, for certain obligations of insolvent insurance companies to policyholders and claimants. A state's fund assesses its members based on their pro rata market share of written premiums in the state for the classes of insurance for which the insolvent insurer was engaged. Some states permit member insurers to recover assessments paid through full or partial premium tax offsets. We accrue liabilities for guaranty fund assessments when an assessment is probable, can be reasonably estimated and when the event obligating us to pay has occurred. While we cannot predict the amount and timing of any future assessments, we have established reserves we believe are adequate for assessments relating to insurance companies that are currently subject to insolvency proceedings. As of December 31, 2019 and 2018, the liability balance for guaranty fund assessments, which is not discounted, was \$21.7 million and \$22.2 million, respectively, and was reported within other liabilities in the consolidated statements of financial position. As of December 31, 2019 and 2018, \$10.0 million and \$10.4 million, respectively, related to premium tax offsets were included in premiums due and other receivables in the consolidated statements of financial position.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

12. Contingencies, Guarantees, Indemnifications and Leases – (continued)**Leases**

As a lessee, we lease office space, data processing equipment, office furniture and office equipment under various operating leases. We also lease buildings and hardware storage equipment under finance leases. Lease assets and liabilities are recognized at the commencement of a lease based on the present value of lease payments over the lease term. We generally use our incremental borrowing rate based on the information available at the lease commencement date to determine the present value of lease payments. Lease term may include options to extend or terminate the lease when it is reasonably certain we will exercise the option. Leases with an initial term of twelve months or less are not recorded on the consolidated statements of financial position. We recognize lease expense for leases on a straight-line basis over the lease term. Some of our lease agreements include payments for property taxes, insurance, utilities or common area maintenance, which are not based on an index or rate. These payments are recognized in net income in the period in which the obligation has occurred.

We sublease certain office space to third parties, which are primarily operating leases. We record sublease income on a straight-line basis over the lease term.

The lease assets and liabilities were as follows:

	December 31, 2019
	<i>(in millions)</i>
Assets	
Operating lease assets (1)	\$ 190.0
Finance lease assets (1)	31.4
Total lease assets	<u>\$ 221.4</u>
Liabilities	
Operating lease liabilities (2)	\$ 197.5
Finance lease liabilities (2)	31.8
Total lease liabilities	<u>\$ 229.3</u>

- (1) Operating and finance lease assets are primarily reported within property and equipment on the consolidated statements of financial position.
(2) Operating and finance lease liabilities are reported within other liabilities on the consolidated statements of financial position.

As of December 31, 2018, we had capital lease assets of \$32.6 million.

The lease cost was as follows:

	For the year ended
	December 31, 2019
	<i>(in millions)</i>
Finance lease cost (1):	
Amortization of right-of-use assets	\$ 14.6
Interest on lease liabilities	1.0
Operating lease cost (1)	55.8
Other lease cost (1) (2)	8.0
Sublease income (3)	<u>(1.7)</u>
Total lease cost	<u>\$ 77.7</u>

- (1) Finance, operating and other lease costs are primarily included in operating expenses on the consolidated statements of operations.
(2) Other lease cost primarily reflects variable and short-term lease costs.
(3) Sublease income is included in fees and other revenues on the consolidated statements of operations.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

12. Contingencies, Guarantees, Indemnifications and Leases – (continued)

Rental expense for operating leases for the years ended December 31, 2018 and 2017, was \$36.7 million and \$44.0 million, respectively. Depreciation expense for capital leases for the years ended December 31, 2018 and 2017, was \$12.9 million and \$13.4 million, respectively.

Payments for operating leases and finance leases for the year ended December 31, 2019, were \$56.1 million and \$15.1 million, respectively. The following represents future payments due by period for lease obligations:

	Operating leases	Finance leases	Total
	<i>(in millions)</i>		
For the twelve months ending December 31:			
2020	\$ 53.9	\$ 14.8	\$ 68.7
2021	43.7	11.7	55.4
2022	35.3	3.9	39.2
2023	25.9	1.9	27.8
2024	18.3	0.5	18.8
2025 and thereafter	51.7	0.1	51.8
Total lease payments	228.8	32.9	261.7
Less: interest	31.3	1.1	32.4
Present value of lease liabilities	<u>\$ 197.5</u>	<u>\$ 31.8</u>	<u>\$ 229.3</u>

The weighted-average remaining lease term and weighted-average discount rates were as follows:

	For the year ended December 31, 2019
Weighted-average remaining lease term (in years):	
Operating leases	6.7
Finance leases	2.6
Weighted-average discount rate:	
Operating leases	3.9 %
Finance leases	2.7 %

13. Stockholders' Equity

Common Stock Dividends

	For the year ended December 31,		
	2019	2018	2017
Dividends declared per common share	<u>\$ 2.18</u>	<u>\$ 2.10</u>	<u>\$ 1.87</u>

Reconciliation of Outstanding Common Shares

	For the year ended December 31,		
	2019	2018	2017
Beginning balance	279.5	289.0	287.7
Shares issued	2.6	2.6	4.9
Treasury stock acquired	(5.5)	(12.1)	(3.6)
Ending balance	<u>276.6</u>	<u>279.5</u>	<u>289.0</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

13. Stockholders' Equity – (continued)

In February 2016, our Board of Directors authorized a share repurchase program of up to \$400.0 million of our outstanding common stock, which was completed in February 2018. In May 2017, our Board of Directors authorized a share repurchase program of up to \$250.0 million of our outstanding common stock, which was completed in April 2018. In May 2018, our Board of Directors authorized a share repurchase program of up to \$300.0 million of our outstanding common stock, which was completed in December 2018. In November 2018, our Board of Directors authorized a share repurchase program of up to \$500.0 million of our outstanding common stock, which has no expiration. Shares repurchased under these programs are accounted for as treasury stock, carried at cost and reflected as a reduction to stockholders' equity.

Other Comprehensive Income (Loss)

	For the year ended December 31, 2019		
	Pre-Tax	Tax	After-Tax
	<i>(in millions)</i>		
Net unrealized gains on available-for-sale securities during the period	\$ 4,414.1	\$ (947.0)	\$ 3,467.1
Reclassification adjustment for losses included in net income (1)	47.4	(9.7)	37.7
Adjustments for assumed changes in amortization patterns	(293.0)	61.5	(231.5)
Adjustments for assumed changes in policyholder liabilities	(847.7)	190.5	(657.2)
Net unrealized gains on available-for-sale securities	<u>3,320.8</u>	<u>(704.7)</u>	<u>2,616.1</u>
Noncredit component of impairment losses on fixed maturities, available-for-sale during the period	5.2	(1.1)	4.1
Adjustments for assumed changes in amortization patterns	(1.4)	0.3	(1.1)
Noncredit component of impairment losses on fixed maturities, available-for-sale (2)	<u>3.8</u>	<u>(0.8)</u>	<u>3.0</u>
Net unrealized losses on derivative instruments during the period	(0.5)	—	(0.5)
Reclassification adjustment for gains included in net income (3)	(23.9)	4.9	(19.0)
Adjustments for assumed changes in amortization patterns	3.1	(0.6)	2.5
Adjustments for assumed changes in policyholder liabilities	7.9	(1.9)	6.0
Net unrealized losses on derivative instruments	<u>(13.4)</u>	<u>2.4</u>	<u>(11.0)</u>
Foreign currency translation adjustment during the period	(112.3)	7.5	(104.8)
Reclassification adjustment for losses included in net income (4)	26.1	—	26.1
Foreign currency translation adjustment	<u>(86.2)</u>	<u>7.5</u>	<u>(78.7)</u>
Unrecognized postretirement benefit obligation during the period	43.6	(8.6)	35.0
Amortization of amounts included in net periodic benefit cost (5)	57.7	(15.4)	42.3
Net unrecognized postretirement benefit obligation	<u>101.3</u>	<u>(24.0)</u>	<u>77.3</u>
Other comprehensive income	<u>\$ 3,326.3</u>	<u>\$ (719.6)</u>	<u>\$ 2,606.7</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

13. Stockholders' Equity – (continued)

	For the year ended December 31, 2018		
	Pre-Tax	Tax	After-Tax
		<i>(in millions)</i>	
Net unrealized losses on available-for-sale securities during the period	\$ (2,517.5)	\$ 515.4	\$ (2,002.1)
Reclassification adjustment for losses included in net income (1)	56.4	(5.3)	51.1
Adjustments for assumed changes in amortization patterns	185.9	(39.1)	146.8
Adjustments for assumed changes in policyholder liabilities	346.9	(72.3)	274.6
Net unrealized losses on available-for-sale securities	<u>(1,928.3)</u>	<u>398.7</u>	<u>(1,529.6)</u>
Noncredit component of impairment losses on fixed maturities, available-for-sale during the period	39.7	(8.4)	31.3
Adjustments for assumed changes in amortization patterns	(5.3)	1.1	(4.2)
Adjustments for assumed changes in policyholder liabilities	(0.8)	0.1	(0.7)
Noncredit component of impairment losses on fixed maturities, available-for-sale (2)	<u>33.6</u>	<u>(7.2)</u>	<u>26.4</u>
Net unrealized gains on derivative instruments during the period	50.4	(3.4)	47.0
Reclassification adjustment for gains included in net income (3)	(40.1)	4.2	(35.9)
Adjustments for assumed changes in amortization patterns	0.3	(0.1)	0.2
Adjustments for assumed changes in policyholder liabilities	5.7	(1.0)	4.7
Net unrealized gains on derivative instruments	<u>16.3</u>	<u>(0.3)</u>	<u>16.0</u>
Foreign currency translation adjustment	<u>(303.9)</u>	<u>16.3</u>	<u>(287.6)</u>
Unrecognized postretirement benefit obligation during the period	(125.3)	29.4	(95.9)
Amortization of amounts included in net periodic benefit cost (5)	49.0	(14.0)	35.0
Net unrecognized postretirement benefit obligation	<u>(76.3)</u>	<u>15.4</u>	<u>(60.9)</u>
Other comprehensive loss	<u>\$ (2,258.6)</u>	<u>\$ 422.9</u>	<u>\$ (1,835.7)</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

13. Stockholders' Equity – (continued)

	For the year ended December 31, 2017		
	Pre-Tax	Tax	After-Tax
		<i>(in millions)</i>	
Net unrealized gains on available-for-sale securities during the period	\$ 1,074.2	\$ (341.6)	\$ 732.6
Reclassification adjustment for losses included in net income (1)	67.8	(23.5)	44.3
Adjustments for assumed changes in amortization patterns	(26.2)	9.3	(16.9)
Adjustments for assumed changes in policyholder liabilities	(184.6)	64.1	(120.5)
Net unrealized gains on available-for-sale securities	<u>931.2</u>	<u>(291.7)</u>	<u>639.5</u>
Noncredit component of impairment losses on fixed maturities, available-for-sale during the period	53.1	(17.0)	36.1
Adjustments for assumed changes in amortization patterns	(6.4)	2.3	(4.1)
Adjustments for assumed changes in policyholder liabilities	(1.3)	0.5	(0.8)
Noncredit component of impairment losses on fixed maturities, available-for-sale (2)	<u>45.4</u>	<u>(14.2)</u>	<u>31.2</u>
Net unrealized losses on derivative instruments during the period	(46.7)	16.0	(30.7)
Reclassification adjustment for gains included in net income (3)	(31.6)	10.8	(20.8)
Adjustments for assumed changes in amortization patterns	3.9	(1.3)	2.6
Adjustments for assumed changes in policyholder liabilities	9.6	(3.3)	6.3
Net unrealized losses on derivative instruments	<u>(64.8)</u>	<u>22.2</u>	<u>(42.6)</u>
Foreign currency translation adjustment during the period	171.6	4.7	176.3
Reclassification adjustment for losses included in net income (4)	2.6	—	2.6
Foreign currency translation adjustment	<u>174.2</u>	<u>4.7</u>	<u>178.9</u>
Unrecognized postretirement benefit obligation during the period	24.0	(3.8)	20.2
Amortization of amounts included in net periodic benefit cost (5)	31.1	(14.0)	17.1
Net unrecognized postretirement benefit obligation	<u>55.1</u>	<u>(17.8)</u>	<u>37.3</u>
Other comprehensive income	<u>\$ 1,141.1</u>	<u>\$ (296.8)</u>	<u>\$ 844.3</u>

- (1) Pre-tax reclassification adjustments relating to available-for-sale securities are reported in net realized capital gains (losses) on the consolidated statements of operations.
- (2) Represents the net impact of (1) unrealized gains resulting from reclassification of previously recognized noncredit impairment losses from OCI to net realized capital gains (losses) for fixed maturities with bifurcated OTTI that had additional credit losses or fixed maturities that previously had bifurcated OTTI that have now been sold or are intended to be sold and (2) unrealized losses resulting from reclassification of noncredit impairment losses for fixed maturities with bifurcated OTTI from net realized capital gains (losses) to OCI.
- (3) See Note 5, Derivative Financial Instruments – Effect of Fair Value and Cash Flow Hedges on Consolidated Statements of Operations, for further details.
- (4) Pre-tax reclassification adjustments primarily relate to deconsolidated sponsored investment funds and are reported in net realized capital gains (losses) on the consolidated statements of operations. For the years ended December 31, 2019 and 2017, \$5.7 million and \$2.0 million, respectively, of the reclassification relates to noncontrolling interest and is reported in net income attributable to noncontrolling interest on the consolidated statements of operations.
- (5) Amount is comprised of amortization of prior service cost (benefit) and recognized net actuarial (gain) loss, which is reported in operating expenses on the consolidated statements of operations. See Note 11, Employee and Agent Benefits – Components of Net Periodic Benefit Cost, for further details.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

13. Stockholders' Equity – (continued)
Accumulated Other Comprehensive Income (Loss)

	Net unrealized gains on available-for-sale securities	Noncredit component of impairment losses on fixed maturities available-for-sale	Net unrealized gains on derivative instruments	Foreign currency translation adjustment	Unrecognized postretirement benefit obligation	Accumulated other comprehensive income (loss)
	<i>(in millions)</i>					
Balances as of January 1, 2017	\$ 831.2	\$ (89.5)	\$ 85.3	\$ (1,093.8)	\$ (408.4)	\$ (675.2)
Other comprehensive income during the period, net of adjustments	595.2	—	(21.8)	174.7	20.2	768.3
Amounts reclassified from AOCI	44.3	31.2	(20.8)	0.6	17.1	72.4
Other comprehensive income	639.5	31.2	(42.6)	175.3	37.3	840.7
Balances as of December 31, 2017	1,470.7	(58.3)	42.7	(918.5)	(371.1)	165.5
Other comprehensive loss during the period, net of adjustments	(1,580.6)	—	51.9	(283.2)	(95.9)	(1,907.8)
Amounts reclassified from AOCI	51.1	26.4	(35.9)	—	35.0	76.6
Other comprehensive loss	(1,529.5)	26.4	16.0	(283.2)	(60.9)	(1,831.2)
Purchase of subsidiary shares from noncontrolling interest	—	—	—	(1.6)	—	(1.6)
Effects of implementation of accounting change related to equity investments, net	(1.0)	—	—	—	—	(1.0)
Effects of implementation of accounting change accounting change related to revenue recognition, net	—	—	—	25.6	—	25.6
Effects of implementation of accounting change related to the reclassification of certain tax effects, net	249.8	(15.2)	5.7	(81.8)	(80.9)	77.6
Balances as of December 31, 2018	190.0	(47.1)	64.4	(1,259.5)	(512.9)	(1,565.1)
Other comprehensive income during the period, net of adjustments	2,578.3	—	8.0	(102.7)	35.0	2,518.6
Amounts reclassified from AOCI	37.7	3.0	(19.0)	20.4	42.3	84.4
Other comprehensive income	2,616.0	3.0	(11.0)	(82.3)	77.3	2,603.0
Balances as of December 31, 2019	<u>\$ 2,806.0</u>	<u>\$ (44.1)</u>	<u>\$ 53.4</u>	<u>\$ (1,341.8)</u>	<u>\$ (435.6)</u>	<u>\$ 1,037.9</u>

Noncontrolling Interest

Interests held by unaffiliated parties in consolidated entities are reflected in noncontrolling interest, which represents the noncontrolling partners' share of the underlying net assets of our consolidated subsidiaries. Noncontrolling interest that is not redeemable is reported in the equity section of the consolidated statements of financial position.

The noncontrolling interest holders in certain of our consolidated entities maintain an equity interest that is redeemable at the option of the holder, which may be exercised on varying dates. Since redemption of the noncontrolling interest is outside of our control, this interest is excluded from stockholders' equity and reported separately as redeemable noncontrolling interest on the consolidated statements of financial position. Our redeemable noncontrolling interest primarily relates to consolidated sponsored investment funds for which interests are redeemed at fair value from the net assets of the funds.

For our redeemable noncontrolling interest related to other consolidated subsidiaries, redemptions are required to be purchased at fair value or a value based on a formula that management intended to reasonably approximate fair value based on a fixed multiple of earnings over a measurement period. The carrying value of the redeemable noncontrolling interest is compared to the redemption value at each reporting period. Any adjustments to the carrying amount of the redeemable noncontrolling interest for changes in redemption value prior to exercise of the redemption option are determined after the attribution of net income or loss of the subsidiary and are recognized in the redemption value as they occur. Adjustments to the carrying value of redeemable noncontrolling interest result in adjustments to additional paid-in capital and/or retained earnings. Adjustments are recorded in retained earnings to the extent the redemption value of the redeemable noncontrolling interest exceeds its fair value and will impact the numerator in our earnings per share calculations. All other adjustments to the redeemable noncontrolling interest are recorded in additional paid-in capital.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

13. Stockholders' Equity – (continued)

Following is a reconciliation of the changes in the redeemable noncontrolling interest (in millions):

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Beginning balance	\$ 391.2	\$ 101.3	\$ 97.5
Net income (loss) attributable to redeemable noncontrolling interest	33.6	(2.1)	7.0
Redeemable noncontrolling interest of deconsolidated entities (1)	(505.4)	(10.6)	(61.1)
Contributions from redeemable noncontrolling interest	402.1	355.0	94.1
Distributions to redeemable noncontrolling interest	(66.3)	(36.8)	(39.0)
Purchase of subsidiary shares from redeemable noncontrolling interest	(1.1)	(7.1)	(4.4)
Change in redemption value of redeemable noncontrolling interest	5.4	(7.0)	5.9
Stock-based compensation attributable to redeemable noncontrolling interest	0.1	0.1	—
Other comprehensive income (loss) attributable to redeemable noncontrolling interest	5.3	(1.6)	1.3
Ending balance	<u>\$ 264.9</u>	<u>\$ 391.2</u>	<u>\$ 101.3</u>

(1) We deconsolidated certain sponsored investment funds as they no longer met the requirements for consolidation.

Dividend Limitations

The declaration and payment of our common stock dividends is subject to the discretion of our Board of Directors and will depend on our overall financial condition, results of operations, capital levels, cash requirements, future prospects, receipt of dividends from Principal Life (as described below), risk management considerations and other factors deemed relevant by the Board. No significant restrictions limit the payment of dividends by us, except those generally applicable to corporations incorporated in Delaware.

Under Iowa law, we may pay dividends only from the earned surplus arising from our business and must receive the prior approval of the Commissioner of Insurance of the State of Iowa ("the Commissioner") to pay stockholder dividends or make any other distribution if such distribution would exceed certain statutory limitations. Iowa law gives the Commissioner discretion to disapprove requests for distributions in excess of these limitations. Extraordinary dividends include those made, together with dividends and other distributions, within the preceding twelve months that exceed the greater of (i) 10% of our statutory policyholder surplus as of the previous year-end or (ii) the statutory net gain from operations from the previous calendar year, not to exceed earned surplus. Based on this limitation and 2019 statutory results, Principal Life could pay approximately \$1,060.3 million in ordinary stockholder dividends in 2020 without prior regulatory approval. However, because the dividend test is based on dividends previously paid over rolling 12-month periods, if paid before a specified date during 2020, some or all of such dividends may be extraordinary and require regulatory approval.

On May 1, 2017, Principal Life sold its ownership interest in Principal Global Investors, LLC to Principal Life's direct parent, Principal Financial Services, Inc. in connection with a corporate reorganization designed to better utilize and allocate capital internally. Subsequent to the sale, Principal Life paid an extraordinary dividend of \$1,068.4 million to its parent, which was approved by the Commissioner, primarily from proceeds received from the sale.

14. Fair Value Measurements

We use fair value measurements to record fair value of certain assets and liabilities and to estimate fair value of financial instruments not recorded at fair value but required to be disclosed at fair value. Certain financial instruments, particularly policyholder liabilities other than investment contracts, are excluded from these fair value disclosure requirements.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

Valuation Hierarchy

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (an exit price). The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three levels. The level in the fair value hierarchy within which the fair value measurement in its entirety falls is determined based on the lowest level input that is significant to the fair value measurement in its entirety considering factors specific to the asset or liability.

- **Level 1** – Fair values are based on unadjusted quoted prices in active markets for identical assets or liabilities.
- **Level 2** – Fair values are based on inputs other than quoted prices within Level 1 that are observable for the asset or liability, either directly or indirectly.
- **Level 3** – Fair values are based on at least one significant unobservable input for the asset or liability.

Determination of Fair Value

The following discussion describes the valuation methodologies and inputs used for assets and liabilities measured at fair value on a recurring basis or disclosed at fair value. The techniques utilized in estimating the fair value of financial instruments are reliant on the assumptions used. Care should be exercised in deriving conclusions about our business, its value or financial position based on the fair value information of financial instruments presented below.

Fair value estimates are made based on available market information and judgments about the financial instrument at a specific point in time. Such estimates do not consider the tax impact of the realization of unrealized gains or losses. In addition, the disclosed fair value may not be realized in the immediate settlement of the financial instrument. We validate prices through an investment analyst review process, which includes validation through direct interaction with external sources, review of recent trade activity or use of internal models. In circumstances where broker quotes are used to value an instrument, we generally receive one non-binding quote. Broker quotes are validated through an investment analyst review process, which includes validation through direct interaction with external sources and use of internal models or other relevant information. We did not make any significant changes to our valuation processes during 2019.

Fixed Maturities

Fixed maturities include bonds, ABS, redeemable preferred stock and certain non-redeemable preferred securities. When available, the fair value of fixed maturities is based on quoted prices of identical assets in active markets. These are reflected in Level 1 and primarily include U.S. Treasury bonds and actively traded redeemable corporate preferred securities.

When quoted prices of identical assets in active markets are not available, our first priority is to obtain prices from third party pricing vendors. We have regular interaction with these vendors to ensure we understand their pricing methodologies and to confirm they are utilizing observable market information. Their methodologies vary by asset class and include inputs such as estimated cash flows, benchmark yields, reported trades, broker quotes, credit quality, industry events and economic events. Fixed maturities with validated prices from pricing services, which includes the majority of our public fixed maturities in all asset classes, are generally reflected in Level 2. Also included in Level 2 are corporate bonds when quoted market prices are not available, for which an internal model using substantially all observable inputs or a matrix pricing valuation approach is used. In the matrix approach, securities are grouped into pricing categories that vary by sector, rating and average life. Each pricing category is assigned a risk spread based on studies of observable public market data from the investment professionals assigned to specific security classes. The expected cash flows of the security are then discounted back at the current Treasury curve plus the appropriate risk spread. Although the matrix valuation approach provides a fair valuation of each pricing category, the valuation of an individual security within each pricing category may also be impacted by company specific factors.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

If we are unable to price a fixed maturity security using prices from third party pricing vendors or other sources specific to the asset class, we may obtain a broker quote or utilize an internal pricing model specific to the asset utilizing relevant market information, to the extent available and where at least one significant unobservable input is utilized. These are reflected in Level 3 in the fair value hierarchy and can include fixed maturities across all asset classes. As of December 31, 2019, less than 1% of our total fixed maturities were Level 3 securities valued using internal pricing models.

The primary inputs, by asset class, for valuations of the majority of our Level 2 investments from third party pricing vendors or our internal pricing valuation approach are described below.

U.S. Government and Agencies/Non-U.S. Governments. Inputs include recently executed market transactions, interest rate yield curves, maturity dates, market price quotations and credit spreads relating to similar instruments.

States and Political Subdivisions. Inputs include Municipal Securities Rulemaking Board reported trades, U.S. Treasury and other benchmark curves, material event notices, new issue data and obligor credit ratings.

Corporate. Inputs include recently executed transactions, market price quotations, benchmark yields, issuer spreads and observations of equity and credit default swap curves related to the issuer. For private placement corporate securities valued through the matrix valuation approach inputs include the current Treasury curve and risk spreads based on sector, rating and average life of the issuance.

RMBS, CMBS, Collateralized Debt Obligations and Other Debt Obligations. Inputs include cash flows, priority of the tranche in the capital structure, expected time to maturity for the specific tranche, reinvestment period remaining and performance of the underlying collateral including prepayments, defaults, deferrals, loss severity of defaulted collateral and, for RMBS, prepayment speed assumptions. Other inputs include market indices and recently executed market transactions.

Equity Securities

Equity securities include mutual funds, common stock, non-redeemable preferred stock and required regulatory investments. Fair values of equity securities are determined using quoted prices in active markets for identical assets when available, which are reflected in Level 1. When quoted prices are not available, we may utilize internal valuation methodologies appropriate for the specific asset that use observable inputs such as underlying share prices or the NAV, which are reflected in Level 2. Fair values might also be determined using broker quotes or through the use of internal models or analysis that incorporate significant assumptions deemed appropriate given the circumstances and consistent with what other market participants would use when pricing such securities, which are reflected in Level 3.

Derivatives

The fair values of exchange-traded derivatives are determined through quoted market prices, which are reflected in Level 1. Exchange-traded derivatives include futures that are settled daily, which reduces their fair value in the consolidated statements of financial position. The fair values of OTC cleared derivatives are determined through market prices published by the clearinghouses, which are reflected in Level 2. The clearinghouses may utilize the overnight indexed swap (“OIS”) curve in their valuation. Variation margin associated with OTC cleared derivatives is settled daily, which reduces their fair value in the consolidated statements of financial position. The fair values of bilateral OTC derivative instruments are determined using either pricing valuation models that utilize market observable inputs or broker quotes. The majority of our bilateral OTC derivatives are valued with models that use market observable inputs, which are reflected in Level 2. Significant inputs include contractual terms, interest rates, currency exchange rates, credit spread curves, equity prices and volatilities. These valuation models consider projected discounted cash flows, relevant swap curves and appropriate implied volatilities. Certain bilateral OTC derivatives utilize unobservable market data, primarily independent broker quotes that are nonbinding quotes based on models that do not reflect the result of market transactions, which are reflected in Level 3.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

14. Fair Value Measurements – (continued)

Our non-cleared derivative contracts are generally documented under ISDA Master Agreements, which provide for legally enforceable set-off and close-out netting of exposures to specific counterparties. Collateral arrangements are bilateral and based on current ratings of each entity. We utilize the LIBOR interest rate curve to value our positions, which includes a credit spread. This credit spread incorporates an appropriate level of nonperformance risk into our valuations given the current ratings of our counterparties, as well as the collateral agreements in place. Counterparty credit risk is routinely monitored to ensure our adjustment for non-performance risk is appropriate. Our centrally cleared derivative contracts are conducted with regulated centralized clearinghouses, which provide for daily exchange of cash collateral or variation margin equal to the difference in the daily market values of those contracts that eliminates the non-performance risk on these trades.

Interest Rate Contracts. For non-cleared contracts we use discounted cash flow valuation techniques to determine the fair value of interest rate swaps and swaptions using observable swap curves as the inputs. These are reflected in Level 2. For centrally cleared contracts we use published prices from clearinghouses. These are reflected in Level 2. In addition, we have interest rate options and have had swaptions that are valued using broker quotes. These are reflected in Level 3.

Foreign Exchange Contracts. We use discounted cash flow valuation techniques that utilize observable swap curves and exchange rates as the inputs to determine the fair value of foreign currency swaps. These are reflected in Level 2. Currency forwards and currency options are valued using observable market inputs, including forward currency exchange rates. These are reflected in Level 2. In addition, we have a limited number of non-standard currency swaps and currency options that are valued using broker quotes. These are reflected within Level 3.

Equity Contracts. We use an option pricing model using observable implied volatilities, dividend yields, index prices and swap curves as the inputs to determine the fair value of equity options. These are reflected in Level 2.

Credit Contracts. We use either the ISDA Credit Default Swap Standard discounted cash flow model that utilizes observable default probabilities and recovery rates as inputs or broker prices to determine the fair value of credit default swaps. These are reflected in Level 3.

Other Investments

Other investments reported at fair value include invested assets of consolidated sponsored investment funds, unconsolidated sponsored investment funds, other investment funds reported at fair value, commercial mortgage loans of consolidated VIEs for which the fair value option was elected, equity method real estate investments for which the fair value option was elected and certain redeemable and nonredeemable preferred stock. In addition, in 2017 we had other investment funds for which the fair value option was elected.

Invested assets of consolidated sponsored investment funds include equity securities, fixed maturities and other investments, for which fair values are determined as previously described, and are reflected in Level 1 and Level 2.

The fair value of unconsolidated sponsored investment funds and other investment funds is determined using the NAV of the fund. The NAV of the fund represents the price at which we would be able to initiate a transaction. Investments for which the NAV represents a quoted price in an active market for identical assets are reflected in Level 1. Investments that do not have a quoted price in an active market are reflected in Level 2.

Commercial mortgage loans of a consolidated VIE were valued using the more observable fair value of the liabilities of the consolidated collateralized financing entity (“CCFE”) under the measurement alternative guidance and were reflected in Level 2. The liabilities were affiliated so were not reflected in our consolidated results. The trust was unwound in the third quarter of 2019.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

Equity method real estate investments for which the fair value option was elected are reflected in Level 3. The equity method real estate investments consist of underlying real estate and debt. The real estate fair value is estimated using a discounted cash flow valuation model that utilizes public real estate market data inputs such as transaction prices, market rents, vacancy levels, leasing absorption, market cap rates and discount rates. The debt fair value is estimated using a discounted cash flow analysis based on our incremental borrowing rate for similar borrowing arrangements.

The fair value of certain redeemable and nonredeemable preferred stock is based on an internal model using unobservable inputs, which is reflected in Level 3. In 2018, the fair value of redeemable preferred stock was based on observable inputs and was reflected in Level 2.

Cash Equivalents

Certain cash equivalents are reported at fair value on a recurring basis and include money market instruments and other short-term investments with maturities of three months or less. Fair values of these cash equivalents may be determined using public quotations, when available, which are reflected in Level 1. When public quotations are not available, because of the highly liquid nature of these assets, carrying amounts may be used to approximate fair values, which are reflected in Level 2.

Separate Account Assets

Separate account assets include equity securities, debt securities, cash equivalents and derivative instruments, for which fair values are determined as previously described, and are reflected in Level 1, Level 2 and Level 3. Separate account assets also include commercial mortgage loans, for which the fair value is estimated by discounting the expected total cash flows using market rates that are applicable to the yield, credit quality and maturity of the loans. The market clearing spreads vary based on mortgage type, weighted average life, rating and liquidity. These are reflected in Level 3. Finally, separate account assets include real estate, for which the fair value is estimated using discounted cash flow valuation models that utilize various public real estate market data inputs. In addition, each property is appraised annually by an independent appraiser. The real estate included in separate account assets is recorded net of related mortgage encumbrances for which the fair value is estimated using discounted cash flow analysis based on our incremental borrowing rate for similar borrowing arrangements. The real estate within the separate accounts is reflected in Level 3.

Investment and Universal Life Contracts

Certain universal life, annuity and other investment contracts include embedded derivatives that have been bifurcated from the host contract and are measured at fair value on a recurring basis, which are reflected in Level 3. The key assumptions for calculating the fair value of the embedded derivative liabilities are market assumptions (such as equity market returns, interest rate levels, market volatility and correlations) and policyholder behavior assumptions (such as lapse, mortality, utilization and withdrawal patterns). Risk margins are included in the policyholder behavior assumptions. The assumptions are based on a combination of historical data and actuarial judgment. The embedded derivative liabilities are valued using models that incorporate a spread reflecting our own creditworthiness.

The assumption for our own non-performance risk for investment contracts and any embedded derivatives bifurcated from certain universal life, annuity and investment contracts is based on the current market credit spreads for debt-like instruments we have issued and are available in the market.

Other Liabilities

Certain obligations reported in other liabilities include embedded derivatives to deliver underlying securities of structured investments to third parties. The fair value of the embedded derivatives is calculated based on the value of the underlying securities that are valued based on prices obtained from third party pricing vendors as utilized and described in our discussion of how fair value is determined for fixed maturities, which are reflected in Level 2.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

Certain obligations of consolidated VIEs for which the fair value option was elected were included in other liabilities. The synthetic entity that had these obligations matured in the first quarter of 2017. The VIEs' unaffiliated obligations were valued utilizing internal pricing models, which were reflected in Level 3.

Assets and Liabilities Measured at Fair Value on a Recurring Basis

Assets and liabilities measured at fair value on a recurring basis were as follows:

Assets/ (liabilities) measured at fair value	Amount measured at net asset value (4)	December 31, 2019		
		Fair value hierarchy level		
		Level 1	Level 2	Level 3
<i>(in millions)</i>				
Assets				
Fixed maturities, available-for-sale:				
U.S. government and agencies	\$ 1,724.2	\$ —	\$ 1,320.0	\$ 404.2
Non-U.S. governments	996.2	—	1.4	994.8
States and political subdivisions	7,490.0	—	—	7,490.0
Corporate	40,647.4	—	18.5	40,547.2
Residential mortgage-backed securities	2,982.4	—	—	2,982.4
Commercial mortgage-backed securities	4,850.2	—	—	4,837.3
Collateralized debt obligations (1)	3,215.3	—	—	3,016.3
Other debt obligations	8,200.5	—	—	8,109.2
Total fixed maturities, available-for-sale	70,106.2	—	1,339.9	68,381.4
Fixed maturities, trading	675.9	—	0.5	675.1
Equity securities	1,879.4	—	645.8	1,233.6
Derivative assets (2)	294.7	—	—	265.4
Other investments	796.0	78.3	335.2	343.5
Cash equivalents	1,299.0	—	40.9	1,258.1
Sub-total excluding separate account assets	75,051.2	78.3	2,362.3	72,157.1
Separate account assets	165,468.0	129.0	95,652.5	60,718.5
Total assets	\$ 240,519.2	\$ 207.3	\$ 98,014.8	\$ 132,875.6
Liabilities				
Investment and universal life contracts (3)	\$ (214.2)	\$ —	\$ —	\$ —
Derivative liabilities (2)	(217.7)	—	—	(201.4)
Other liabilities (3)	(98.9)	—	—	(98.9)
Total liabilities	\$ (530.8)	\$ —	\$ —	\$ (300.3)
Net assets	\$ 239,988.4	\$ 207.3	\$ 98,014.8	\$ 132,575.3

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

	December 31, 2018				
	Assets/ (liabilities) measured at fair value	Amount measured at net asset value (4)	Fair value hierarchy level		
			Level 1	Level 2	Level 3
<i>(in millions)</i>					
Assets					
Fixed maturities, available-for-sale:					
U.S. government and agencies	\$ 1,441.0	\$ —	\$ 1,027.8	\$ 413.2	\$ —
Non-U.S. governments	890.5	—	2.7	883.2	4.6
States and political subdivisions	6,225.7	—	—	6,225.7	—
Corporate	35,539.3	—	19.2	35,462.2	57.9
Residential mortgage-backed securities	2,460.6	—	—	2,460.6	—
Commercial mortgage-backed securities	3,945.6	—	—	3,936.1	9.5
Collateralized debt obligations (1)	2,420.8	—	—	2,412.5	8.3
Other debt obligations	7,185.0	—	—	7,126.5	58.5
Total fixed maturities, available-for-sale	60,108.5	—	1,049.7	58,920.0	138.8
Fixed maturities, trading	636.1	—	—	636.1	—
Equity securities	1,843.7	—	661.2	1,182.5	—
Derivative assets (2)	194.0	—	—	175.4	18.6
Other investments	828.6	75.4	125.9	610.1	17.2
Cash equivalents	1,775.9	—	46.3	1,729.6	—
Sub-total excluding separate account assets	65,386.8	75.4	1,883.1	63,253.7	174.6
Separate account assets	144,987.9	124.6	79,572.0	56,675.8	8,615.5
Total assets	\$ 210,374.7	\$ 200.0	\$ 81,455.1	\$ 119,929.5	\$ 8,790.1
Liabilities					
Investment and universal life contracts (3)	\$ (45.2)	\$ —	\$ —	\$ —	\$ (45.2)
Derivative liabilities (2)	(157.1)	—	—	(141.6)	(15.5)
Other liabilities (3)	(91.5)	—	—	(91.5)	—
Total liabilities	\$ (293.8)	\$ —	\$ —	\$ (233.1)	\$ (60.7)
Net assets	\$ 210,080.9	\$ 200.0	\$ 81,455.1	\$ 119,696.4	\$ 8,729.4

- (1) Primarily consists of collateralized loan obligations backed by secured corporate loans.
- (2) Within the consolidated statements of financial position, derivative assets are reported with other investments and derivative liabilities are reported with other liabilities. The amounts are presented gross in the tables above to reflect the presentation on the consolidated statements of financial position; however, are presented net for purposes of the rollforward in the Changes in Level 3 Fair Value Measurements tables. Refer to Note 5, Derivative Financial Instruments, for further information on fair value by class of derivative instruments.
- (3) Includes bifurcated embedded derivatives that are reported at net asset (liability) fair value within the same line item in the consolidated statements of financial position in which the host contract is reported.
- (4) Certain investments are measured at fair value using the NAV per share (or its equivalent) practical expedient and have not been classified in the fair value hierarchy. Other investments using the NAV practical expedient consist of certain fund interests that are restricted until maturity with unfunded commitments totaling \$19.9 million and \$32.0 million as of December 31, 2019 and December 31, 2018, respectively. Separate account assets using the NAV practical expedient consist of hedge funds with varying investment strategies that also have a variety of redemption terms and conditions. We do not have unfunded commitments associated with these hedge funds.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

Changes in Level 3 Fair Value Measurements

The reconciliation for all assets and liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) was as follows:

	For the year ended December 31, 2019							Changes in unrealized gains (losses) included in net income relating to positions still held (1)
	Total realized/unrealized gains (losses)						Ending asset/ (liability) balance as of December 31, 2019	
	Beginning asset/ (liability) balance as of January 1, 2019	Included in net income (1)	Included in other comprehensive income (3)	Net purchases, sales, issuances and settlements (4)	Transfers into Level 3	Transfers out of Level 3		
<i>(in millions)</i>								
Assets								
Fixed maturities, available-for-sale:								
Non-U.S. governments	\$ 4.6	\$ —	\$ —	\$ (4.6)	\$ —	\$ —	\$ —	\$ —
Corporate	57.9	—	2.5	17.2	4.1	—	81.7	—
Commercial mortgage-backed securities	9.5	(3.8)	3.4	2.4	3.7	(2.3)	12.9	(2.9)
Collateralized debt obligations	8.3	(2.6)	0.9	122.5	69.9	—	199.0	(2.6)
Other debt obligations	58.5	—	0.8	100.0	8.3	(76.3)	91.3	—
Total fixed maturities, available-for-sale	138.8	(6.4)	7.6	237.5	86.0	(78.6)	384.9	(5.5)
Fixed maturities, trading	—	—	—	0.3	—	—	0.3	—
Other investments	17.2	6.0	—	5.8	10.0	—	39.0	6.0
Separate account assets (2)	8,615.5	739.9	—	(214.2)	—	(173.2)	8,968.0	697.1
Liabilities								
Investment and universal life contracts	(45.2)	(145.5)	(0.2)	(23.3)	—	—	(214.2)	(146.0)
Derivatives								
Net derivative assets (liabilities)	3.1	(0.8)	—	10.7	—	—	13.0	5.3

	For the year ended December 31, 2018							Changes in unrealized gains (losses) included in net income relating to positions still held (1)
	Total realized/unrealized gains (losses)						Ending asset/ (liability) balance as of December 31, 2018	
	Beginning asset/ (liability) balance as of January 1, 2018	Included in net income (1)	Included in other comprehensive income (3)	Net purchases, sales, issuances and settlements (4)	Transfers into Level 3	Transfers out of Level 3		
<i>(in millions)</i>								
Assets								
Fixed maturities, available-for-sale:								
Non-U.S. governments	\$ 7.4	\$ —	\$ (0.1)	\$ (1.4)	\$ —	\$ (1.3)	\$ 4.6	\$ —
Corporate	128.0	(1.0)	(0.1)	(15.2)	1.0	(54.8)	57.9	—
Commercial mortgage-backed securities	10.6	(3.5)	0.2	0.1	3.6	(1.5)	9.5	(1.9)
Collateralized debt obligations	125.0	(0.9)	0.2	66.3	54.7	(237.0)	8.3	(0.9)
Other debt obligations	2.3	—	(0.2)	147.4	—	(91.0)	58.5	—
Total fixed maturities, available-for-sale	273.3	(5.4)	—	197.2	59.3	(385.6)	138.8	(2.8)
Fixed maturities, trading	—	—	—	3.7	—	(3.7)	—	—
Equity securities	2.7	12.9	—	(15.6)	—	—	—	—
Other investments	6.5	1.7	—	9.0	—	—	17.2	1.7
Separate account assets (2)	7,651.4	869.5	(0.3)	133.7	2.3	(41.1)	8,615.5	829.8
Liabilities								
Investment and universal life contracts	(160.3)	107.5	0.1	7.5	—	—	(45.2)	109.9
Derivatives								
Net derivative assets (liabilities)	18.1	(20.2)	—	5.2	—	—	3.1	(18.4)

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

	For the year ended December 31, 2017							Changes in unrealized gains (losses) included in net income relating to positions still held (1)
	Beginning asset/ (liability) balance as of January 1, 2017	Total realized/unrealized gains (losses)		Net purchases, sales, issuances and settlements (4)	Transfers into Level 3	Transfers out of Level 3	Ending asset/ (liability) balance as of December 31, 2017	
		Included in net income (1)	Included in other comprehensive income (3)					
<i>(in millions)</i>								
Assets								
Fixed maturities, available-for-sale:								
Non-U.S. governments	\$ 62.1	\$ (0.2)	\$ (0.3)	\$ (19.0)	\$ —	\$ (35.2)	\$ 7.4	\$ (0.3)
Corporate	259.1	(2.3)	3.5	(29.2)	22.2	(125.3)	128.0	(0.8)
Commercial mortgage-backed securities	71.1	(12.7)	11.1	(0.7)	26.3	(84.5)	10.6	(4.0)
Collateralized debt obligations	33.6	—	1.7	7.3	183.7	(101.3)	125.0	—
Other debt obligations	91.5	—	(0.2)	(0.8)	0.1	(88.3)	2.3	—
Total fixed maturities, available-for-sale	517.4	(15.2)	15.8	(42.4)	232.3	(434.6)	273.3	(5.1)
Fixed maturities, trading	92.9	(2.4)	—	(92.4)	1.9	—	—	—
Equity securities, available-for-sale	2.7	—	—	—	—	—	2.7	—
Equity securities, trading	—	—	—	(0.7)	0.7	—	—	—
Other investments	36.9	3.9	—	(34.3)	—	—	6.5	3.8
Separate account assets (2)	7,354.8	798.1	(1.1)	(464.8)	3.1	(38.7)	7,651.4	696.0
Liabilities								
Investment and universal life contracts	(176.5)	8.4	0.4	7.4	—	—	(160.3)	5.7
Other liabilities	(59.9)	(0.1)	—	60.0	—	—	—	—
Derivatives								
Net derivative assets (liabilities)	11.3	3.1	—	3.7	—	—	18.1	4.9

- (1) Both realized gains (losses) and mark-to-market unrealized gains (losses) are generally reported in net realized capital gains (losses) within the consolidated statements of operations. Realized and unrealized gains (losses) on certain securities with an investment objective to realize economic value through mark-to-market changes are reported in net investment income within the consolidated statements of operations.
- (2) Gains and losses for separate account assets do not impact net income as the change in value of separate account assets is offset by a change in value of separate account liabilities. Foreign currency translation adjustments related to the Principal International segment separate account assets are recorded in AOCI and are offset by foreign currency translation adjustments of the corresponding separate account liabilities.
- (3) Includes foreign currency translation adjustments related to our Principal International segment.
- (4) Gross purchases, sales, issuances and settlements were:

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

	For the year ended December 31, 2019				Net purchases, sales, issuances and settlements
	Purchases	Sales	Issuances	Settlements	
	<i>(in millions)</i>				
Assets					
Fixed maturities, available-for-sale:					
Non-U.S. governments	\$ —	\$ —	\$ —	\$ (4.6)	\$ (4.6)
Corporate	41.9	(1.4)	—	(23.3)	17.2
Commercial mortgage-backed securities	2.4	—	—	—	2.4
Collateralized debt obligations	124.7	—	—	(2.2)	122.5
Other debt obligations	107.7	—	—	(7.7)	100.0
Total fixed maturities, available-for-sale	276.7	(1.4)	—	(37.8)	237.5
Fixed maturities, trading	0.5	—	—	(0.2)	0.3
Other investments	10.7	(4.9)	—	—	5.8
Separate account assets (5)	279.1	(526.4)	(280.4)	313.5	(214.2)

Liabilities					
Investment and universal life contracts	—	—	(33.4)	10.1	(23.3)

Derivatives					
Net derivative assets (liabilities)	1.9	8.8	—	—	10.7

	For the year ended December 31, 2018				Net purchases, sales, issuances and settlements
	Purchases	Sales	Issuances	Settlements	
	<i>(in millions)</i>				
Assets					
Fixed maturities, available-for-sale:					
Non-U.S. governments	\$ —	\$ —	\$ —	\$ (1.4)	\$ (1.4)
Corporate	12.9	(10.1)	—	(18.0)	(15.2)
Commercial mortgage-backed securities	—	—	—	0.1	0.1
Collateralized debt obligations	93.6	—	—	(27.3)	66.3
Other debt obligations	152.0	—	—	(4.6)	147.4
Total fixed maturities, available-for-sale	258.5	(10.1)	—	(51.2)	197.2
Fixed maturities, trading	3.7	—	—	—	3.7
Equity securities	—	(15.6)	—	—	(15.6)
Other investments	9.0	—	—	—	9.0
Separate account assets (5)	743.0	(608.4)	(206.5)	205.6	133.7

Liabilities					
Investment and universal life contracts	—	—	2.8	4.7	7.5

Derivatives					
Net derivative assets (liabilities)	1.8	3.4	—	—	5.2

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

	For the year ended December 31, 2017				Net purchases, sales, issuances and settlements
	Purchases	Sales	Issuances	Settlements	
	<i>(in millions)</i>				
Assets					
Fixed maturities, available-for-sale:					
Non-U.S. governments	\$ 67.4	\$ (85.0)	\$ —	\$ (1.4)	\$ (19.0)
Corporate	112.3	(89.4)	—	(52.1)	(29.2)
Commercial mortgage-backed securities	—	—	—	(0.7)	(0.7)
Collateralized debt obligations	22.9	—	—	(15.6)	7.3
Other debt obligations	—	—	—	(0.8)	(0.8)
Total fixed maturities, available-for-sale	202.6	(174.4)	—	(70.6)	(42.4)
Fixed maturities, trading	—	—	—	(92.4)	(92.4)
Equity securities, trading	—	—	—	(0.7)	(0.7)
Other investments	2.4	(36.7)	—	—	(34.3)
Separate account assets (5)	401.4	(651.4)	(284.6)	69.8	(464.8)
Liabilities					
Investment and universal life contracts	—	—	(0.2)	7.6	7.4
Other liabilities	—	—	—	60.0	60.0
Derivatives					
Net derivative assets (liabilities)	1.5	2.2	—	—	3.7

(5) Issuances and settlements include amounts related to mortgage encumbrances associated with real estate in our separate accounts.

Transfers

Transfers of assets and liabilities measured at fair value on a recurring basis between fair value hierarchy levels were as follows:

	For the year ended December 31, 2019					
	Transfers out of Level 1 into Level 2	Transfers out of Level 1 into Level 3	Transfers out of Level 2 into Level 1	Transfers out of Level 2 into Level 3	Transfers out of Level 3 into Level 1	Transfers out of Level 3 into Level 2
	<i>(in millions)</i>					
Assets						
Fixed maturities, available-for-sale:						
U.S. government and agencies	\$ —	\$ —	\$ 1.1	\$ —	\$ —	\$ —
Corporate	—	—	—	4.1	—	—
Commercial mortgage-backed securities	—	—	—	3.7	—	2.3
Collateralized debt obligations	—	—	—	69.9	—	—
Other debt obligations	—	—	—	8.3	—	76.3
Total fixed maturities, available-for-sale	—	—	1.1	86.0	—	78.6
Other investments	—	—	—	10.0	—	—
Separate account assets	102.7	—	—	—	—	173.2

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

	For the year ended December 31, 2018					
	Transfers out of Level 1 into Level 2	Transfers out of Level 1 into Level 3	Transfers out of Level 2 into Level 1	Transfers out of Level 2 into Level 3	Transfers out of Level 3 into Level 1	Transfers out of Level 3 into Level 2
	<i>(in millions)</i>					
Assets						
Fixed maturities, available-for-sale:						
Non-U.S. governments	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1.3
Corporate	—	—	—	1.0	—	54.8
Commercial mortgage-backed securities	—	—	—	3.6	—	1.5
Collateralized debt obligations	—	—	—	54.7	—	237.0
Other debt obligations	—	—	—	—	—	91.0
Total fixed maturities, available-for-sale	—	—	—	59.3	—	385.6
Fixed maturities, trading	—	—	—	—	—	3.7
Separate account assets	293.2	—	0.8	2.3	0.2	40.9

	For the year ended December 31, 2017					
	Transfers out of Level 1 into Level 2	Transfers out of Level 1 into Level 3	Transfers out of Level 2 into Level 1	Transfers out of Level 2 into Level 3	Transfers out of Level 3 into Level 1	Transfers out of Level 3 into Level 2
	<i>(in millions)</i>					
Assets						
Fixed maturities, available-for-sale:						
Non-U.S. governments	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 35.2
Corporate	—	—	—	22.2	—	125.3
Commercial mortgage-backed securities	—	—	—	26.3	—	84.5
Collateralized debt obligations	—	—	—	183.7	—	101.3
Other debt obligations	—	—	—	0.1	—	88.3
Total fixed maturities, available-for-sale	—	—	—	232.3	—	434.6
Fixed maturities, trading	—	—	—	1.9	—	—
Equity securities, trading	—	—	—	0.7	—	—
Separate account assets	12.5	—	5.9	3.1	—	38.7

Transfers between fair value hierarchy levels are recognized at the beginning of the reporting period.

Separate account assets transferred from Level 1 to Level 2 during 2019 included certain separate accounts we now value using the unit trust approved pooled investment fund ("APIF") as the unit of account that were previously valued using the underlying investments of the unit trust APIF. Separate account assets transferred from Level 1 to Level 2 during 2018 primarily included cash equivalents as a result of additional analysis to clarify the source of the price. Separate account assets transferred between Level 1 and Level 2 during 2017 primarily related to foreign equity securities. When these securities are valued at the close price of the local exchange where the assets traded, they are reflected in Level 1. When events materially affecting the value occur between the close of the local exchange and the New York Stock Exchange, we use adjusted prices determined by a third party pricing vendor to update the foreign market closing prices and the fair value is reflected in Level 2.

Assets transferred into Level 3 during 2019, 2018 and 2017, primarily included those assets for which we are now unable to obtain pricing from a recognized third party pricing vendor as well as assets that were previously priced using a matrix valuation approach that may no longer be relevant when applied to asset-specific situations.

Assets transferred out of Level 3 during 2019, 2018 and 2017, included those for which we are now able to obtain pricing from a recognized third party pricing vendor or from internal models using substantially all market observable information. Separate account assets transferred out of Level 3 during 2019 primarily included those we now value using the unit trust APIF as the unit of account, which were previously valued using the underlying investments of the unit trust APIF.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

Quantitative Information about Level 3 Fair Value Measurements

The following table provides quantitative information about the significant unobservable inputs used for recurring fair value measurements categorized within Level 3, excluding assets and liabilities for which significant quantitative unobservable inputs are not developed internally, which primarily consists of those valued using broker quotes or the measurement alternative for CCFEs. Refer to “Assets and liabilities measured at fair value on a recurring basis” for a complete valuation hierarchy summary.

December 31, 2019					
Assets / (liabilities) measured at fair value <i>(in millions)</i>	Valuation technique(s)	Unobservable input description	Input/range of inputs	Weighted average	
Assets					
Fixed maturities, available-for-sale:					
Corporate	\$ 72.5	Discounted cash flow	Discount rate (1)	1.9 %-	5.1 %
			Illiquidity premium	0 basis points (“bps”)-	410 bps
Commercial mortgage-backed securities	2.4	Discounted cash flow	Probability of default	100.0 %	100.0 %
			Potential loss severity	53.1 %	53.1 %
Collateralized debt obligations	108.7	Discounted cash flow	Discount rate (1)	2.9 %-	10.0 %
			Potential loss severity	23.0 %	23.0 %
			Probability of default	100.0 %	100.0 %
Other debt obligations	1.2	Discounted cash flow	Discount rate (1)	5.0 %	5.0 %
			Illiquidity premium	500 bps	500 bps
Other investments	14.8	Discounted cash flow	Discount rate (1)	25.0 %-	30.0 %
			Terminal earnings before interest, taxes, depreciation and amortization multiple	3.5 x-	4.5 x
		Market comparables	Revenue multiples (2)	0.8 x-	7.0 x
Separate account assets	8,966.2	Discounted cash flow - mortgage loans	Discount rate (1)	2.8 %	2.8 %
			Illiquidity premium	60 bps	60 bps
			Credit spread rate	120 bps	120 bps
		Discounted cash flow - real estate	Discount rate (1)	5.5 %-	11.8 %
			Terminal capitalization rate	4.5 %-	9.3 %
			Average market rent growth rate	2.0 %-	4.7 %
		Discounted cash flow - real estate debt	Loan to value	8.0 %-	80.4 %
			Market interest rate	3.2 %-	5.8 %
				3.6 %	3.6 %
Liabilities					
Investment and universal life contracts (6)	(214.2)	Discounted cash flow	Long duration interest rate	2.0 %-	2.1 % (3)
			Long-term equity market volatility	15.0 %-	26.9 %
			Non-performance risk	0.2 %-	1.3 %
			Utilization rate	See note (4)	
			Lapse rate	0.0 %-	18.0 %
			Mortality rate	See note (5)	

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

December 31, 2018				
Assets / (liabilities) measured at fair value <i>(in millions)</i>	Valuation technique(s)	Unobservable input description	Input/range of inputs	Weighted average
Assets				
Fixed maturities, available-for-sale:				
Non-U.S. governments	\$ 4.6	Discounted cash flow	Discount rate (1)	3.2 %
			Illiquidity premium	50 bps
			Comparability adjustment	(25)bps
Corporate	25.4	Discounted cash flow	Discount rate (1)	3.3 %- 4.5 %
			Illiquidity premium	0 bps- 60 bps
Other debt obligations	1.7	Discounted cash flow	Discount rate (1)	5.0 %
			Illiquidity premium	500 bps
Separate account assets	8,440.8	Discounted cash flow - mortgage loans	Discount rate (1)	3.3 %- 4.7 %
			Illiquidity premium	0 bps- 60 bps
			Credit spread rate	85 bps- 172 bps
		Discounted cash flow - real estate	Discount rate (1)	5.6 %- 11.5 %
			Terminal capitalization rate	4.3 %- 9.3 %
			Average market rent growth rate	2.0 %- 4.7 %
		Discounted cash flow - real estate debt	Loan to value	11.0 %- 69.3 %
			Market interest rate	3.9 %- 6.0 %
Liabilities				
Investment and universal life contracts (6)	(45.2)	Discounted cash flow	Long duration interest rate	2.8 %- 2.9 % (3)
			Long-term equity market volatility	16.7 %- 27.8 %
			Non-performance risk	0.6 %- 1.6 %
			Utilization rate	See note (4)
			Lapse rate	1.3 %- 16.0 %
			Mortality rate	See note (5)

- (1) Represents market comparable interest rate or an index adjusted rate used as the base rate in the discounted cash flow analysis prior to any illiquidity or other adjustments, where applicable.
- (2) Revenue multiples are amounts used when we have determined market participants would use such multiples to value the investments.
- (3) Represents the range of rate curves used in the valuation analysis that we have determined market participants would use when pricing the instrument. Derived from interpolation between various observable swap rates.
- (4) This input factor is the number of contractholders taking withdrawals as well as the amount and timing of the withdrawals and a range does not provide a meaningful presentation.
- (5) This input is based on an appropriate industry mortality table and a range does not provide a meaningful presentation.
- (6) Includes bifurcated embedded derivatives that are reported at net asset (liability) fair value within the same line item in the consolidated statements of financial position in which the host contract is reported.

Market comparable discount rates are used as the base rate in the discounted cash flows used to determine the fair value of certain assets. Increases or decreases in the credit spreads on the comparable assets could cause the fair value of the assets to significantly decrease or increase, respectively. Additionally, we may adjust the base discount rate or the modeled price by applying an illiquidity premium given the highly structured nature of certain assets. Increases or decreases in this illiquidity premium could cause significant decreases or increases, respectively, in the fair value of the asset.

Embedded derivatives within our investment and universal life contracts liability can be in either an asset or liability position, depending on certain inputs at the reporting date. Increases to an asset or decreases to a liability are described as increases to fair value. Increases or decreases in market volatilities could cause significant decreases or increases, respectively, in the fair value of embedded derivatives in investment and universal life contracts. Long duration interest rates are used as the mean return when projecting the growth in the value of associated account value and impact the discount rate used in the discounted future cash flows valuation. The amount of claims will increase if account value is not sufficient to cover guaranteed withdrawals. Increases or decreases in risk-free rates could cause the fair value of the embedded derivative to significantly increase or decrease, respectively. Increases or decreases in our own credit risks, which impact the rates used to discount future cash flows, could significantly increase or decrease, respectively, the fair value of the embedded derivative. All of these changes in fair value would impact net income.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

Decreases or increases in the mortality rate assumption could cause the fair value of the embedded derivative to decrease or increase, respectively. Decreases or increases in the overall lapse rate assumption could cause the fair value of the embedded derivative to decrease or increase, respectively. The lapse rate assumption may vary dynamically based on the relationship of the guarantee and associated account value. A stronger or weaker dynamic lapse rate assumption could cause the fair value of the embedded derivative to decrease or increase, respectively. The utilization rate assumption includes how many contractholders will take withdrawals, when they will take them and how much of their benefit they will take. Increases or decreases in the assumption of the number of contractholders taking withdrawals could cause the fair value of the embedded derivative to decrease or increase, respectively. Assuming contractholders take withdrawals earlier or later could cause the fair value of the embedded derivative to decrease or increase, respectively. Assuming contractholders take more or less of their benefit could cause the fair value of the embedded derivative to decrease or increase, respectively.

Assets and Liabilities Measured at Fair Value on a Nonrecurring Basis

No significant assets and liabilities were measured at fair value on a nonrecurring basis for the years ended December 31, 2019, 2018 and 2017.

Fair Value Option

We elected fair value accounting for:

- Certain commercial mortgage loans of a consolidated VIE for which it was not practicable for us to determine the carrying value. The consolidated VIE was unwound in the third quarter of 2019. In addition, we had certain obligations of consolidated VIEs held by a synthetic entity for which it was not practicable for us to determine the carrying value. The synthetic entity matured in the first quarter of 2017.
- Certain real estate ventures that are subject to the equity method of accounting because the nature of the investments is to add value to the properties and generate income from the operations of the properties. Other equity method real estate investments are not fair valued because the investments mainly generate income from the operations of the underlying properties.
- In 2017, we had certain investment funds for which we did not have enough influence to account for under the equity method in order to reflect the economics of the investment in the financial statements. We did not elect the fair value option for other similar investments as these investments are generally accounted for under the equity method of accounting.

The following tables present information regarding the assets and liabilities for which the fair value option was elected.

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
	<i>(in millions)</i>	
Commercial mortgage loans of consolidated VIEs (1) (2)		
Fair value	\$ —	\$ 6.4
Aggregate contractual principal	—	6.5
Real estate ventures (1)		
Fair value	22.8	17.2

(1) Reported with other investments in the consolidated statements of financial position.

(2) None of the loans were more than 90 days past due or in non-accrual status.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

14. Fair Value Measurements – (continued)

	For the year ended December 31,		
	2019	2018	2017
	(in millions)		
Commercial mortgage loans of consolidated VIEs			
Change in fair value pre-tax gain (loss) (1) (2)	\$ 0.1	\$ (0.2)	\$ (0.4)
Interest income (3)	0.3	0.7	0.9
Obligations of consolidated VIEs			
Change in fair value pre-tax loss - instrument specific credit risk (2) (4)	—	—	(0.1)
Change in fair value pre-tax loss (2)	—	—	(0.1)
Interest expense (5)	—	—	0.3
Real estate ventures			
Change in fair value pre-tax gain (6)	6.0	1.7	3.8
Investment funds			
Change in fair value pre-tax gain (6) (7)	—	—	1.7
Dividend income (6)	—	—	1.9

- (1) None of the change in fair value related to instrument-specific credit risk.
- (2) Reported in net realized capital gains (losses) on the consolidated statements of operations.
- (3) Reported in net investment income on the consolidated statements of operations and recorded based on the effective interest rates as determined at the closing of the loan.
- (4) Estimated based on credit spreads and quality ratings.
- (5) Reported in operating expenses on the consolidated statements of operations.
- (6) Reported in net investment income on the consolidated statements of operations.
- (7) Absent the fair value election, the change in fair value on the investments would be reported in OCI.

Financial Instruments Not Reported at Fair Value

The carrying value and estimated fair value of financial instruments not recorded at fair value on a recurring basis but required to be disclosed at fair value were as follows:

	December 31, 2019				
	Carrying amount	Fair value	Fair value hierarchy level		
			Level 1	Level 2	Level 3
	(in millions)				
Assets (liabilities)					
Mortgage loans	\$ 16,486.9	\$ 17,214.7	\$ —	\$ —	\$ 17,214.7
Policy loans	798.0	1,030.8	—	—	1,030.8
Other investments	278.8	273.1	—	180.3	92.8
Cash and cash equivalents	1,216.9	1,216.9	1,193.3	23.6	—
Investment contracts	(33,922.2)	(34,001.3)	—	(4,304.5)	(29,696.8)
Short-term debt	(93.4)	(93.4)	—	(93.4)	—
Long-term debt	(3,734.1)	(4,122.9)	—	(4,015.3)	(107.6)
Separate account liabilities	(151,132.4)	(149,955.6)	—	—	(149,955.6)
Bank deposits (1)	(469.6)	(468.3)	—	(468.3)	—
Cash collateral payable	(156.8)	(156.8)	(156.8)	—	—
	December 31, 2018				
	Carrying amount	Fair value	Fair value hierarchy level		
			Level 1	Level 2	Level 3
	(in millions)				
Assets (liabilities)					
Mortgage loans	\$ 15,336.9	\$ 15,383.6	\$ —	\$ —	\$ 15,383.6
Policy loans	801.4	965.5	—	—	965.5
Other investments	247.4	239.8	—	157.5	82.3
Cash and cash equivalents	1,201.6	1,201.6	1,148.6	53.0	—
Investment contracts	(32,572.1)	(31,428.2)	—	(4,085.7)	(27,342.5)
Short-term debt	(42.9)	(42.9)	—	(42.9)	—
Long-term debt	(3,259.6)	(3,257.1)	—	(3,129.3)	(127.8)
Separate account liabilities	(132,562.9)	(131,491.4)	—	—	(131,491.4)
Bank deposits (1)	(500.0)	(489.1)	—	(489.1)	—
Cash collateral payable	(79.5)	(79.5)	(79.5)	—	—

- (1) Excludes deposit liabilities without defined or contractual maturities.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

15. Statutory Insurance Financial Information

Principal Life, the largest indirect subsidiary of PFG, prepares statutory financial statements in accordance with the accounting practices prescribed or permitted by the Insurance Division of the Department of Commerce of the State of Iowa (the “Iowa Insurance Division”). The Iowa Insurance Division recognizes only statutory accounting practices prescribed or permitted by the State of Iowa for determining and reporting the financial condition and results of operations of an insurance company to determine its solvency under the Iowa Insurance Law. The National Association of Insurance Commissioners’ (“NAIC”) Accounting Practices and Procedures Manual has been adopted as a component of prescribed practices by the State of Iowa. The Commissioner has the right to permit other specific practices that deviate from prescribed practices. Statutory accounting practices differ from U.S. GAAP primarily due to charging policy acquisition costs to expense as incurred, establishing reserves using different actuarial assumptions, valuing investments on a different basis and not admitting certain assets, including certain net deferred income tax assets.

For the years ended, December 31, 2019 and 2018, Principal Life’s use of prescribed statutory accounting practices resulted in higher statutory surplus of \$862.1 million and \$546.3 million, respectively, relative to the accounting practices and procedures of the NAIC due to its accounting for reserve credits associated with a reinsurance transaction with an affiliated reinsurer. In addition, as of December 31, 2019 and 2018, Principal Life’s permitted statutory accounting practice relating to variable annuities with a guaranteed living benefit rider resulted in lower statutory surplus of \$151.3 million and \$69.9 million, respectively, relative to carrying certain interest rate swaps at book value rather than fair value, as if they received hedge accounting treatment for statutory. Effective January 1, 2020, the Iowa Insurance Division approved our request to discontinue the use of this permitted practice due to changes in the practices and procedures of the NAIC. The discontinuance of the permitted practice will create a one-time increase to surplus.

Principal Life cedes certain term and universal life insurance statutory reserves to our affiliated reinsurance subsidiaries on a funds withheld coinsurance basis. The reserves are secured by cash, invested assets and financing provided by highly rated third parties. As of December 31, 2019 and 2018, our affiliated reinsurance subsidiaries assumed statutory reserves of \$7,902.3 million and \$6,850.3 million from Principal Life, respectively. In the states of Vermont and Delaware, the affiliated reinsurers had permitted and prescribed practices allowing for the admissibility of certain assets backing these reserves. As of December 31, 2019 and 2018, assets admitted under these practices totaled \$3,358.0 million and \$2,852.0 million, respectively.

Life and health insurance companies are subject to certain risk-based capital (“RBC”) requirements as specified by the NAIC. Under those requirements, the amount of capital and surplus maintained by a life and health insurance company is to be determined based on the various risk factors related to it. As of December 31, 2019, Principal Life met the minimum RBC requirements.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

15. Statutory Insurance Financial Information – (continued)

Statutory net income and statutory capital and surplus of Principal Life were as follows:

	<u>As of or for the year ended December 31,</u>		
	<u>2019</u>	<u>2018</u>	<u>2017</u>
Statutory net income	\$ 989.3	\$ 1,017.6	\$ 1,976.7
Statutory capital and surplus	5,193.4	5,319.6	4,946.8

16. Segment Information

We provide financial products and services through the following segments: Retirement and Income Solutions, Principal Global Investors, Principal International and U.S. Insurance Solutions. In addition, we have a Corporate segment. The segments are managed and reported separately because they provide different products and services, have different strategies or have different markets and distribution channels.

The Retirement and Income Solutions segment provides retirement and related financial products and services primarily to businesses, their employees and other individuals. The segment is organized into Retirement and Income Solutions – Fee, which includes full service accumulation, trust services, individual variable annuities and revenues and expenses associated with the Acquired Business; and Retirement and Income Solutions – Spread, which includes individual fixed annuities, investment only, pension risk transfer and banking services.

The Principal Global Investors segment provides asset management services to our asset accumulation business, our insurance operations, the Corporate segment and third party clients. This segment also includes our mutual fund business.

The Principal International segment has operations in Latin America (Brazil, Chile and Mexico) and Asia (China, Hong Kong Special Administrative Region, India and Southeast Asia). We focus on locations with large middle classes, favorable demographics and growing long-term savings, ideally with voluntary or mandatory pension markets. We entered these locations through acquisitions, start-up operations and joint ventures.

The U.S. Insurance Solutions segment focuses on solutions for individuals and small-to-medium sized businesses and their employees. The segment is organized into Specialty Benefits insurance, which provides group dental and vision insurance, individual and group disability insurance, critical illness, accident, group life insurance and non-medical fee-for-service claims administration; and Individual Life insurance, which provides universal life, variable universal life, indexed universal life and traditional life insurance.

Our Corporate segment manages the assets representing capital that has not been allocated to any other segment. Financial results of the Corporate segment primarily reflect our financing activities (including financing costs), income on capital not allocated to other segments, inter-segment eliminations, income tax risks and certain income, expenses and other adjustments not allocated to the segments based on the nature of such items. Results of Principal Securities, Inc. (“PSI”), our retail broker-dealer and registered investment advisor (“RIA”); RobustWealth, Inc. (“RobustWealth”), our financial technology company; and our exited group medical and long-term care insurance businesses are reported in this segment.

Effective January 1, 2019, we made changes to the allocation of certain compensation and other expenses and net investment income among the reportable segments. These allocation changes were made as a result of a global financial process improvement project. The expense allocation changes simplify the allocation processes, increase transparency and allow for more effective expense management across the enterprise. The net investment income allocation changes better align our internal capital allocation with enterprise capital targets. Segment results for prior periods were recast so they are reported on a comparable basis, with no impact to total company financial results.

Principal Financial Group, Inc.

Notes to Consolidated Financial Statements – (continued)

December 31, 2019

16. Segment Information – (continued)

Management uses segment pre-tax operating earnings in evaluating performance, which is consistent with the financial results provided to and discussed with securities analysts. We determine segment pre-tax operating earnings by adjusting U.S. GAAP income before income taxes for pre-tax net realized capital gains (losses), as adjusted, pre-tax other adjustments that management believes are not indicative of overall operating trends and certain adjustments related to equity method investments and noncontrolling interest. While these items may be significant components in understanding and assessing the consolidated financial performance, management believes the presentation of pre-tax operating earnings enhances the understanding of our results of operations by highlighting pre-tax earnings attributable to the normal, ongoing operations of the business.

The pre-tax net realized capital gains (losses), as adjusted, excluded from pre-tax operating earnings reflects consolidated U.S. GAAP pre-tax net realized capital gains (losses) excluding the following items that are included in pre-tax operating earnings:

- Periodic settlements and accruals on derivative instruments not designated as hedging instruments,
- Certain market value adjustments of derivatives and embedded derivatives and
- Certain market value adjustments of derivative instruments used to economically hedge embedded derivatives.

Pre-tax net realized capital gains (losses), as adjusted, are further adjusted for:

- Amortization of hedge accounting book value adjustments for certain discontinued hedges,
- Certain hedge accounting market value revenue adjustments,
- Certain market value adjustments to fee revenues,
- Pre-tax net realized capital gains (losses) adjustments related to equity method investments,
- Pre-tax net realized capital gains (losses) adjustments related to sponsored investment funds,
- Recognition of deferred front-end fee revenues for sales charges on retirement and life insurance products and services,
- Related changes in the amortization pattern of DAC and related actuarial balances,
- Certain hedge accounting market value expense adjustments and
- Net realized capital gains (losses) distributed.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

16. Segment Information – (continued)

Segment operating revenues reflect consolidated U.S. GAAP total revenues excluding:

- Net realized capital gains (losses), except periodic settlements and accruals on derivatives not designated as hedging instruments and certain market value adjustments of derivative instruments used to economically hedge embedded derivatives, and their impact on:
 - Amortization of hedge accounting book value adjustments for certain discontinued hedges,
 - Certain hedge accounting market value revenue adjustments,
 - Certain market value adjustments to fee revenues,
 - Pre-tax net realized capital gains (losses) adjustments related to equity method investments,
 - Pre-tax net realized capital gains (losses) adjustments related to sponsored investment funds and
 - Recognition of deferred front-end fee revenues for sales charges on retirement and life insurance products and services.
- Pre-tax other adjustments and income taxes of equity method investments and
- Pre-tax other adjustments management believes are not indicative of overall operating trends.

The accounting policies of the segments are consistent with the accounting policies for the consolidated financial statements, with the exception of: (1) pension and other postretirement employee benefits (“OPEB”) cost allocations, (2) certain expenses deemed to benefit the entire organization and (3) income tax allocations. For purposes of determining pre-tax operating earnings, the segments are allocated the service component of pension and other postretirement benefit costs. The Corporate segment reflects the non-service components of pension and other postretirement benefit costs as assumptions are established and funding decisions are managed from a company-wide perspective. Additionally, the Corporate segment reflects expenses that benefit the entire organization for which the segments are not able to influence the spend. This includes expenses such as public company costs, executive management costs, acquisition and disposition costs, among others. The Corporate segment functions to absorb the risk inherent in interpreting and applying tax law. For purposes of determining non-GAAP operating earnings, the segments are allocated tax adjustments consistent with the positions we took on tax returns. The Corporate segment results reflect any differences between the tax returns and the estimated resolution of any disputes.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

16. Segment Information – (continued)

The following tables summarize select financial information by segment, including operating revenues for our products and services, and reconcile segment totals to those reported in the consolidated financial statements:

	December 31, 2019	December 31, 2018
	<i>(in millions)</i>	
Assets:		
Retirement and Income Solutions	\$ 192,698.1	\$ 163,833.6
Principal Global Investors	2,363.3	2,301.0
Principal International	48,857.6	46,701.2
U.S. Insurance Solutions	28,669.6	25,388.2
Corporate	3,499.2	4,812.1
Total consolidated assets	<u>\$ 276,087.8</u>	<u>\$ 243,036.1</u>

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		

Operating revenues by segment:			
Retirement and Income Solutions:			
Retirement and Income Solutions – Fee	\$ 2,003.0	\$ 1,783.7	\$ 1,776.4
Retirement and Income Solutions – Spread	6,951.4	5,493.3	5,378.3
Total Retirement and Income Solutions (1)	<u>8,954.4</u>	<u>7,277.0</u>	<u>7,154.7</u>
Principal Global Investors (2)	1,505.8	1,736.3	1,444.4
Principal International	1,523.2	1,372.9	1,251.5
U.S. Insurance Solutions:			
Specialty Benefits insurance	2,493.6	2,326.4	2,168.4
Individual Life insurance	1,955.6	1,763.6	1,745.3
Eliminations	<u>(0.2)</u>	<u>(0.2)</u>	<u>(0.2)</u>
Total U.S. Insurance Solutions	<u>4,449.0</u>	<u>4,089.8</u>	<u>3,913.5</u>
Corporate	<u>(39.3)</u>	<u>(51.2)</u>	<u>(60.8)</u>
Total segment operating revenues	<u>16,393.1</u>	<u>14,424.8</u>	<u>13,703.3</u>
Net realized capital gains (losses), net of related revenue adjustments	(98.5)	(132.3)	472.2
Adjustments related to equity method investments	(72.5)	(55.3)	(82.3)
Total revenues per consolidated statements of operations	<u>\$ 16,222.1</u>	<u>\$ 14,237.2</u>	<u>\$ 14,093.2</u>

Pre-tax operating earnings (losses) by segment:			
Retirement and Income Solutions	\$ 874.0	\$ 922.2	\$ 938.5
Principal Global Investors	483.3	562.1	481.3
Principal International	390.7	272.6	346.2
U.S. Insurance Solutions	521.6	467.0	412.8
Corporate	<u>(380.3)</u>	<u>(269.4)</u>	<u>(305.1)</u>
Total segment pre-tax operating earnings	<u>1,889.3</u>	<u>1,954.5</u>	<u>1,873.7</u>
Pre-tax net realized capital gains (losses), as adjusted (3)	(140.9)	(126.4)	520.3
Pre-tax other adjustments (4)	—	—	(70.0)
Adjustments related to equity method investments and noncontrolling interest	(55.1)	(43.7)	(71.8)
Income before income taxes per consolidated statements of operations	<u>\$ 1,693.3</u>	<u>\$ 1,784.4</u>	<u>\$ 2,252.2</u>

- (1) Reflects inter-segment revenues of \$357.8 million, \$393.6 million and \$402.8 million for the years ended December 31, 2019, 2018 and 2017, respectively.
- (2) Reflects inter-segment revenues of \$264.9 million, \$262.8 million and \$250.9 million for the years ended December 31, 2019, 2018 and 2017, respectively.
- (3) Pre-tax net realized capital gains (losses), as adjusted, is derived as follows:

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

16. Segment Information – (continued)

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Net realized capital gains (losses)	\$ (52.8)	\$ (75.4)	\$ 524.2
Derivative and hedging-related revenue adjustments	(80.4)	(64.9)	(59.4)
Market value adjustments to fee revenues	—	0.1	(0.1)
Adjustments related to equity method investments	2.6	(5.4)	1.4
Adjustments related to sponsored investment funds	23.6	12.9	6.3
Recognition of front-end fee revenue	8.5	0.4	(0.2)
Net realized capital gains (losses), net of related revenue adjustments	(98.5)	(132.3)	472.2
Amortization of deferred acquisition costs and other actuarial balances	(40.8)	(27.0)	55.0
Capital (gains) losses distributed	(68.2)	14.4	(55.0)
Market value adjustments of embedded derivatives	66.6	18.5	48.1
Pre-tax net realized capital gains (losses), as adjusted (a)	<u>\$ (140.9)</u>	<u>\$ (126.4)</u>	<u>\$ 520.3</u>

(a) As adjusted before noncontrolling interest capital gains (losses).

(4) For the year ended December 31, 2017, pre-tax other adjustments included the negative effect of a contribution to The Principal Financial Group Foundation, Inc.

The following is a summary of income tax expense (benefit) allocated to our segments for purposes of determining non-GAAP operating earnings. Segment income taxes are reconciled to income taxes reported on our consolidated statements of operations.

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Income tax expense (benefit) by segment:			
Retirement and Income Solutions	\$ 71.8	\$ 85.6	\$ 123.0
Principal Global Investors	121.8	149.1	186.0
Principal International	106.8	73.3	87.5
U.S. Insurance Solutions	101.8	85.7	134.0
Corporate	(82.0)	(36.7)	(135.4)
Total segment income taxes from operating earnings	320.2	357.0	395.1
Tax expense (benefit) related to net realized capital losses, as adjusted	1.3	(71.4)	209.1
Tax benefit related to other after-tax adjustments (1)	—	—	(594.5)
Certain adjustments related to equity method investments and noncontrolling interest	(72.3)	(54.9)	(82.0)
Total income taxes per consolidated statements of operations	<u>\$ 249.2</u>	<u>\$ 230.7</u>	<u>\$ (72.3)</u>

(1) The 2017 tax benefit includes \$568.3 million associated with the U.S. tax reform.

The following is a summary of depreciation and amortization expense allocated to our segments for purposes of determining pre-tax operating earnings. Segment depreciation and amortization is reconciled to depreciation and amortization included in operating expenses in our consolidated statements of operations.

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Depreciation and amortization expense by segment:			
Retirement and Income Solutions	\$ 48.2	\$ 32.5	\$ 30.6
Principal Global Investors	18.9	21.9	19.8
Principal International	58.6	59.6	53.1
U.S. Insurance Solutions	25.0	26.2	28.1
Corporate	16.1	10.8	8.2
Total depreciation and amortization expense included in our consolidated statements of operations	<u>\$ 166.8</u>	<u>\$ 151.0</u>	<u>\$ 139.8</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

17. Revenues from Contracts with Customers

The following tables summarize disaggregation of revenues from contracts with customers, including select financial information by segment, and reconcile totals to those reported in the consolidated financial statements. Revenues from contracts with customers are included in fees and other revenues on the consolidated statements of operations.

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Revenue from contracts with customers by segment:			
Retirement and Income Solutions:			
Retirement and Income Solutions – Fee	\$ 455.5	\$ 252.4	\$ 258.0
Retirement and Income Solutions – Spread	9.3	10.5	10.2
Total Retirement and Income Solutions	464.8	262.9	268.2
Principal Global Investors	1,456.7	1,700.5	1,406.1
Principal International	462.2	477.1	426.4
U.S. Insurance Solutions:			
Specialty Benefits insurance	14.9	14.8	13.9
Individual Life insurance	51.2	42.4	36.4
Eliminations	(0.2)	(0.2)	(0.2)
Total U.S. Insurance Solutions	65.9	57.0	50.1
Corporate	160.4	161.4	148.4
Total segment revenue from contracts with customers	2,610.0	2,658.9	2,299.2
Adjustments for fees and other revenues not within the scope of revenue recognition guidance (1)	1,791.4	1,614.4	1,593.4
Pre-tax other adjustments (2)	8.5	0.5	(0.3)
Total fees and other revenues per consolidated statements of operations	<u>\$ 4,409.9</u>	<u>\$ 4,273.8</u>	<u>\$ 3,892.3</u>

- (1) Fees and other revenues not within the scope of the revenue recognition guidance primarily represent revenue on contracts accounted for under the financial instruments or insurance contracts standards.
- (2) Pre-tax other adjustments relate to the recognition of deferred front-end fee revenues for sales charges on retirement and life insurance products and certain market value adjustments to fee revenues.

Retirement and Income Solutions - Fee

Retirement and Income Solutions - Fee offers service and trust agreements for defined contribution retirement plans, including 401(k) plans, 403(b) plans, and employee stock ownership plans. The investment components of these service agreements are in the form of mutual fund offerings. In addition, plan sponsor retirement plan trust and custody services are also available through an affiliated trust company. With the Acquired Business, services and trust agreements are also offered to non-retirement customers including insurance companies, endowments and other financial institutions.

Fees and other revenues are earned for administrative activities performed for the defined contribution retirement plans including recordkeeping and reporting as well as trust and custody, asset management and investment services. Fees and other revenues are earned for administrative activities performed for non-retirement plan customers including trust and custody services, defined benefit administration and investment management activities. The majority of these activities are performed daily over time. Fee-for-service transactions are also provided upon client request. These services are considered distinct or grouped into a bundle until a distinct performance obligation is identified. Some performance obligations are considered a series of distinct services, which are substantially the same and have the same pattern of transfer to the customer.

Fees and other revenues can be based on a fixed contractual rate for these services or can be variable based upon contractual rates applied to the market value of the client's investment portfolio each day. If the consideration for this series of performance obligations is based on daily market value, it is considered variable each day as the services are performed over time. The consideration becomes unconstrained and thus recognized as revenue for each day's series of distinct services once the market value of the clients' investment portfolios is determined at market close or carried over at the end of the day for days when the market is closed. Additionally, fixed fees and other revenues are recognized point-in-time as fee-for-service transactions upon completion.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

17. Revenues from Contracts with Customers – (continued)

The types of revenues from contracts with customers were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Administrative service fee revenue (1)	\$ 453.7	\$ 250.7	\$ 256.4
Other fee revenue	1.8	1.7	1.6
Total revenues from contracts with customers	455.5	252.4	258.0
Fees and other revenues not within the scope of revenue recognition guidance	1,139.0	1,132.9	1,111.2
Total fees and other revenues	1,594.5	1,385.3	1,369.2
Premiums and other considerations	3.5	4.0	3.8
Net investment income	405.0	394.4	403.4
Total operating revenues	<u>\$ 2,003.0</u>	<u>\$ 1,783.7</u>	<u>\$ 1,776.4</u>

(1) Includes fee revenue for the Acquired Business in 2019.

Retirement and Income Solutions - Spread

Retirement and Income Solutions – Spread offers individual retirement accounts (“IRAs”) through Principal Bank, which are primarily funded by retirement savings rolled over from qualified retirement plans. The IRAs are held in savings accounts, money market accounts and certificates of deposit. Revenues are earned through fees as the performance of establishing and maintaining IRA accounts is completed. Fee-for-service transactions are also provided upon client request. The establishment fees and annual maintenance fees are accrued into earnings over a period of time using the average account life. Upfront and recurring bank fees are related to performance obligations that have the same pattern of transfer to the customer and are recognized in income over time with control transferred to the customers utilizing the output method. These fees are based on a fixed contractual rate. Fixed fees and other revenues are also recognized point-in-time as fee-for-service transactions upon completion.

The types of revenues from contracts with customers were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Deposit account fee revenue	\$ 9.3	\$ 10.5	\$ 10.2
Total revenues from contracts with customers	9.3	10.5	10.2
Fees and other revenues not within the scope of revenue recognition guidance	13.9	12.5	15.0
Total fees and other revenues	23.2	23.0	25.2
Premiums and other considerations	4,859.2	3,631.9	3,667.3
Net investment income	2,069.0	1,838.4	1,685.8
Total operating revenues	<u>\$ 6,951.4</u>	<u>\$ 5,493.3</u>	<u>\$ 5,378.3</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

17. Revenues from Contracts with Customers – (continued)

Principal Global Investors

Fees and other revenues earned for asset management, investment advisory and distribution services provided to institutional and retail clients are based largely upon contractual rates applied to the specified amounts of the clients’ portfolios. Each service is a distinct performance obligation, or a series of distinct services that are a single performance obligation in that the services are substantially the same and have the same pattern of transfer to the customer. Fees and other revenues received for performance obligations such as asset management and other services are typically recognized over time utilizing the output method as the service is performed. Performance fees and transaction fees on certain accounts are recognized in income when the probability of significant reversal will not occur upon resolution of the uncertainty, which could be based on a variety of factors such as market performance or other internal metrics. Asset management fees are accrued each month based on the fee terms within the applicable agreement and are generally billed quarterly when values used for the calculation are available. Management fees and performance fees are variable consideration as they are subject to fluctuation based on assets under management (“AUM”) and other constraints. These fees are not recognized until unconstrained at the end of each reporting period.

The types of revenues from contracts with customers were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Management fee revenue	\$ 1,239.1	\$ 1,244.5	\$ 1,217.0
Other fee revenue (1)	217.6	456.0	189.1
Total revenues from contracts with customers	<u>1,456.7</u>	<u>1,700.5</u>	<u>1,406.1</u>
Fees and other revenues not within the scope of revenue recognition guidance	38.5	30.4	28.1
Total fees and other revenues	<u>1,495.2</u>	<u>1,730.9</u>	<u>1,434.2</u>
Net investment income	10.6	5.4	10.2
Total operating revenues	<u>\$ 1,505.8</u>	<u>\$ 1,736.3</u>	<u>\$ 1,444.4</u>

(1) During the third quarter of 2018, we recognized a \$253.1 million accelerated performance fee resulting from the realignment of a real estate investment team.

Principal International

Fees and other revenues are earned for asset management and distribution services provided to retail and institutional clients in addition to trustee and/or administrative services performed for retirement savings plans. Each service is considered a distinct performance obligation; however, if the services are not distinct on their own, we combine them into a distinct bundle or we have a series of distinct services that are substantially the same and have the same pattern of transfer to the customer. Fees and other revenues are typically based upon contractual rates applied to the market value of the clients’ investment portfolios and are considered variable consideration. The transaction price generally includes the amount determined at the end of the reporting period, whereby fees are deducted from the clients’ investment portfolios and are recognized as revenue when no longer constrained and satisfied as the services are performed over time utilizing the output method. In addition, payments to customers can take the form of an incentive given by us to entice the customer to purchase its goods or services. Incentives offered to customers are recognized as part of the transaction price as a reduction of revenue either over the period the customer remains in order to receive the incentive or monthly throughout the life of the contract.

Incentive-based fees are recognized in income when the probability of significant reversal will not occur upon the resolution of the uncertainty, which is based on market performance.

Fees for managing customers’ mandatory retirement savings accounts in Chile are collected with each monthly deposit made by our customers. If a customer stops contributing before retirement age, we collect no fees but services are still provided. We recognize revenue from these contracts as services are performed over the life of the contract and review annually.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

17. Revenues from Contracts with Customers – (continued)

The types of revenues from contracts with customers were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Management fee revenue	\$ 459.3	\$ 472.1	\$ 414.6
Other fee revenue	2.9	5.0	11.8
Total revenues from contracts with customers	<u>462.2</u>	<u>477.1</u>	<u>426.4</u>
Fees and other revenues not within the scope of revenue recognition guidance	6.3	7.3	7.1
Total fees and other revenues	468.5	484.4	433.5
Premiums and other considerations	393.3	317.2	218.0
Net investment income	661.4	571.3	600.0
Total operating revenues	<u>\$ 1,523.2</u>	<u>\$ 1,372.9</u>	<u>\$ 1,251.5</u>
Revenues from contracts with customers by region:			
Latin America	\$ 351.5	\$ 370.8	\$ 318.9
Asia	111.0	106.3	108.3
Principal International corporate / regional offices	0.9	0.9	0.7
Eliminations	(1.2)	(0.9)	(1.5)
Total revenues from contracts with customers	<u>\$ 462.2</u>	<u>\$ 477.1</u>	<u>\$ 426.4</u>

U.S. Insurance Solutions

Fees and other revenues are earned for administrative services performed including recordkeeping and reporting services for fee-for-service products, nonqualified benefit plans, separate accounts and dental networks. Services within contracts are not distinct on their own; however, we combine the services into a distinct bundle and account for the bundle as a single performance obligation, which is satisfied over time utilizing the output method as services are rendered. The transaction price corresponds with the performance completed to date, for which the value is recognized as revenue during the period. Variability of consideration is resolved at the end of each period and payments are due when billed.

Commission income is earned through sponsored brokerage services. Performance obligations are satisfied at a point in time, upon delivery of a placed case, and the transaction price calculated per the compensation schedule is recognized as revenue.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

17. Revenues from Contracts with Customers – (continued)

The types of revenues from contracts with customers were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Specialty Benefits insurance:			
Administrative service fees	\$ 14.9	\$ 14.8	\$ 13.9
Total revenues from contracts with customers	14.9	14.8	13.9
Fees and other revenues not within the scope of revenue recognition guidance	19.6	20.6	21.3
Total fees and other revenues	34.5	35.4	35.2
Premiums and other considerations	2,292.7	2,134.1	1,985.9
Net investment income	166.4	156.9	147.3
Total operating revenues	<u>\$ 2,493.6</u>	<u>\$ 2,326.4</u>	<u>\$ 2,168.4</u>
Individual Life insurance:			
Administrative service fees	\$ 24.3	\$ 22.8	\$ 21.5
Commission income	26.9	19.6	14.9
Total revenues from contracts with customers	51.2	42.4	36.4
Fees and other revenues not within the scope of revenue recognition guidance	875.9	727.0	703.5
Total fees and other revenues	927.1	769.4	739.9
Premiums and other considerations	317.9	322.4	342.4
Net investment income	710.6	671.8	663.0
Total operating revenues	<u>\$ 1,955.6</u>	<u>\$ 1,763.6</u>	<u>\$ 1,745.3</u>

Corporate

Fees and other revenues are earned on the performance of selling and servicing of securities and related products offered through PSI, an introducing broker-dealer registered with the FINRA.

PSI enters into selling and distribution agreements with the obligation to sell or distribute the securities products, such as mutual funds, annuities and products sold through RIAs, to individual clients in return for a front-end sales charges, 12b-1 service fees, annuity fees and asset-based fees. Front-end sales charges, 12b-1 fees and annuity fees are related to a single sale and are earned at the time of sale. PSI also enters into agreements with individual customers to provide securities trade execution and custody through a brokerage services platform in return for ticket charge and other service fee revenue. These services are bundled as one single distinct service referred to as brokerage services. This revenue is related to distinct transactions and is earned at a point in time.

PSI also enters into agreements with individual customers to provide trade execution, clearing services, custody services and investment research services through our proprietary offered fee-based products. These services are bundled as one single distinct service referred to as advisory services. In addition, for outside RIA business PSI performs sales and distribution services only. The revenues are earned over time as the service is performed utilizing the output method.

A majority of our revenue is based upon contractual rates applied to the market value of the clients' portfolios and considered variable consideration.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

17. Revenues from Contracts with Customers – (continued)

The Corporate segment also includes inter-segment eliminations of fees and other revenues. The types of revenues from contracts with customers were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Commission income	\$ 320.2	\$ 316.1	\$ 299.7
Other fee revenue	46.1	35.4	30.1
Eliminations	<u>(205.9)</u>	<u>(190.1)</u>	<u>(181.4)</u>
Total revenues from contracts with customers	160.4	161.4	148.4
Fees and other revenues not within the scope of revenue recognition guidance	<u>(301.8)</u>	<u>(316.3)</u>	<u>(292.8)</u>
Total fees and other revenues	(141.4)	(154.9)	(144.4)
Net investment income	102.1	103.7	83.6
Total operating revenues	<u>\$ (39.3)</u>	<u>\$ (51.2)</u>	<u>\$ (60.8)</u>

Contract Costs

Sales compensation and other incremental costs of obtaining a contract are capitalized and amortized over the period of contract benefit if the costs are expected to be recovered. The contract cost asset, which is included in other assets on the consolidated statements of financial position, was \$157.0 million and \$137.6 million as of December 31, 2019 and December 31, 2018, respectively.

We apply the practical expedient for certain costs where we recognize the incremental costs of obtaining these contracts as an expense when incurred if the amortization period of the assets is one year or less. These costs, along with costs that are not deferrable, are included in operating expenses on the consolidated statements of operations.

Deferred contract costs consist primarily of commissions and variable compensation. We amortize capitalized contract costs on a straight-line basis over the expected contract life, reflecting lapses as they are incurred. Deferred contract costs are subject to impairment testing on an annual basis, or when a triggering event occurs that could warrant an impairment. To the extent future revenues less future maintenance expenses are not adequate to cover the asset balance, an impairment is recognized. For the years ended December 31, 2019 and 2018, \$24.4 million and \$23.8 million, respectively, of amortization expense was recorded in operating expenses on the consolidated statements of operations and no impairment loss was recognized in relation to the costs capitalized.

18. Stock-Based Compensation Plans

As of December 31, 2019, we had the 2014 Stock Incentive Plan, the Employee Stock Purchase Plan, the 2014 Directors Stock Plan, the Amended and Restated 2010 Stock Incentive Plan, the 2005 Directors Stock Plan, the Stock Incentive Plan and the Directors Stock Plan ("Stock-Based Compensation Plans"). As of May 20, 2014, no new grants will be made under the Amended and Restated 2010 Stock Incentive Plan or the 2005 Directors Stock Plan. No grants have been made under the Stock Incentive Plan or the Directors Stock Plan since at least 2005. Under the terms of the 2014 Stock Incentive Plan, grants may be nonqualified stock options, incentive stock options qualifying under Section 422 of the Internal Revenue Code, restricted stock, restricted stock units, stock appreciation rights, performance shares, performance units or other stock-based awards. The 2014 Directors Stock Plan provides for the grant of nonqualified stock options, restricted stock, restricted stock units or other stock-based awards to our nonemployee directors. To date, we have not granted any incentive stock options, restricted stock or performance units under any plans.

As of December 31, 2019, the maximum number of new shares of common stock available for grant under the 2014 Stock Incentive Plan and the 2014 Directors Stock Plan was 6.7 million.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

18. Stock Based Compensation Plans – (continued)

For awards with graded vesting, we use an accelerated expense attribution method. The compensation cost that was charged against net income for stock-based awards granted under the Stock-Based Compensation Plans was as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Compensation cost	\$ 78.7	\$ 77.5	\$ 80.6
Related income tax benefit	16.8	16.7	27.1
Capitalized as part of an asset	1.7	1.9	2.5

Nonqualified Stock Options

Nonqualified stock options were granted to certain employees under the 2014 Stock Incentive Plan, the Amended and Restated 2010 Stock Incentive Plan and the Stock Incentive Plan. Options outstanding were granted at an exercise price equal to the fair market value of our common stock on the date of grant and expire ten years after the grant date. These options have graded vesting over a three-year period, except in the case of specific types of terminations. Total options granted were 1.2 million, 0.8 million and 0.7 million during 2019, 2018 and 2017, respectively.

The following is a summary of the status of all of our stock option plans:

	Number of options	Weighted- average exercise price	Intrinsic value
	<i>(in millions)</i>		<i>(in millions)</i>
Options outstanding as of January 1, 2019	4.2	\$ 46.77	
Granted	1.2	53.09	
Exercised	0.1	32.59	
Options outstanding as of December 31, 2019	<u>5.3</u>	\$ 48.42	\$ 46.6
Options vested or expected to vest as of December 31, 2019	<u>5.3</u>	\$ 48.41	\$ 46.6
Options exercisable as of December 31, 2019	<u>3.5</u>	\$ 44.07	\$ 44.4

The total intrinsic value of stock options exercised was \$2.4 million, \$18.7 million and \$53.0 million during 2019, 2018, and 2017, respectively.

The following is a summary of weighted-average remaining contractual lives for stock options outstanding and the range of exercise prices on the stock options as of December 31, 2019:

Range of exercise prices	Number of options outstanding	Weighted- average remaining contractual life
	<i>(in millions)</i>	
\$21.70 - \$32.32	0.7	2.5
\$32.33 - \$42.95	1.0	5.3
\$42.96 - \$53.58	2.2	7.1
\$53.59 - \$64.22	1.4	7.7
\$21.70 - \$64.22	<u>5.3</u>	

The weighted-average remaining contractual lives for stock options exercisable is approximately 5.0 years as of December 31, 2019.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

18. Stock Based Compensation Plans – (continued)

The fair value of stock options is estimated using the Black-Scholes option pricing model. The following is a summary of the assumptions used in this model for the stock options granted during the period:

Options	For the year ended December 31,		
	2019	2018	2017
Expected volatility	23.3 %	26.0 %	27.6 %
Expected term (in years)	7.0	7.0	7.0
Risk-free interest rate	2.6 %	2.8 %	2.2 %
Expected dividend yield	4.07 %	3.19 %	2.87 %
Weighted average estimated fair value	\$ 10.00	\$ 14.85	\$ 15.31

We determine expected volatility based on a combination of historical volatility using daily price observations and implied volatility from traded options on our common stock. We believe that incorporating both historical and implied volatility into our expected volatility assumption calculation better reflects market expectations. The expected term represents the period of time that options granted are expected to be outstanding. We determine expected term using historical exercise and employee termination data. The risk-free rate for periods within the expected term of the option is based on the U.S. Treasury risk-free interest rate in effect at the time of grant. The dividend yield is based on historical dividend distributions compared to the closing price of our common shares on the grant date.

As of December 31, 2019, we had \$1.7 million of total unrecognized compensation cost related to nonvested stock options. The cost is expected to be recognized over a weighted-average service period of approximately 1.8 years.

Cash received from stock options exercised under these share-based payment arrangements during 2019, 2018 and 2017 was \$3.4 million, \$29.0 million and \$133.9 million, respectively. The actual tax benefits realized for the tax deductions for options exercised under these share-based payment arrangements during 2019, 2018 and 2017 was \$0.5 million, \$3.9 million and \$18.1 million, respectively.

Performance Share Awards

We granted performance share awards to certain employees under the 2014 Stock Incentive Plan and the Amended and Restated 2010 Stock Incentive Plan. The performance share awards are treated as an equity award and are paid in shares. Whether the performance shares are earned depends upon the participant's continued employment through the performance period (except in the case of specific types of terminations) and our performance against three-year goals set at the beginning of the performance period. Performance goals based on various factors must be achieved for any of the performance shares to be earned. If the performance requirements are not met, the performance shares will be forfeited, no compensation cost will be recognized and any previously recognized compensation cost will be reversed. These awards have no maximum contractual term. Dividend equivalents are credited on performance shares outstanding as of the record date. These dividend equivalents are only paid on the shares released. Total performance share awards granted were 0.2 million, 0.2 million and 0.2 million in 2019, 2018 and 2017, respectively.

The following is a summary of activity for the nonvested performance share awards:

	Number of performance share awards <i>(in millions)</i>	Weighted- average grant-date fair value
Nonvested performance share awards as of January 1, 2019	0.6	\$ 52.50
Granted	0.2	53.09
Vested	0.3	37.38
Nonvested performance share awards as of December 31, 2019	<u>0.5</u>	<u>\$ 59.26</u>

The total intrinsic value of performance share awards vested was \$17.6 million, \$21.5 million and \$15.9 million during 2019, 2018 and 2017, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

18. Stock Based Compensation Plans – (continued)

Performance share awards above represent initial target awards and do not reflect potential increases or decreases resulting from the final performance results to be determined at the end of the respective performance period. The actual number of common shares to be awarded at the end of each performance period will range between 0% and 150% of the initial target awards.

The fair value of performance share awards is determined based on the closing stock price of our common shares on the grant date. The weighted-average grant-date fair value of performance share awards granted during 2019, 2018 and 2017 was \$53.09, \$63.98 and \$62.98, respectively.

As of December 31, 2019, we had \$2.1 million of total unrecognized compensation cost related to nonvested performance share awards granted. The cost is expected to be recognized over a weighted-average service period of approximately 1.7 years.

Actual tax benefits realized for the tax deductions for performance share awards paid out under these share-based payment arrangements for 2019, 2018 and 2017 was \$3.3 million, \$3.3 million and \$5.4 million, respectively.

Restricted Stock Units

We issue restricted stock units under the 2014 Stock Incentive Plan, the 2014 Directors Stock Plan, the Amended and Restated 2010 Stock Incentive Plan, the 2005 Directors Stock Plan, the Stock Incentive Plan, and the Directors Stock Plan. Restricted stock units are treated as an equity award and are paid in shares. These awards have no maximum contractual term. Dividend equivalents are credited on restricted stock units outstanding as of the record date. These dividend equivalents are only paid on the shares released. Restricted stock units granted were 1.1 million, 0.8 million and 0.8 million in 2019, 2018 and 2017, respectively.

Restricted stock units were issued to certain employees and agents pursuant to the 2014 Stock Incentive Plan, the Amended and Restated 2010 Stock Incentive Plan and Stock Incentive Plan. Under these plans, awards have graded or cliff vesting over a three-year service period. When service for PFG ceases (except in the case of specific types of terminations), all vesting stops and unvested units are forfeited.

Pursuant to the 2014 Directors Stock Plan and the 2005 Directors Stock Plan, restricted stock units are granted to each non-employee director in office immediately following each annual meeting of stockholders and, at the discretion of the Nominating and Governance Committee, to each person who becomes a member of the Board other than on the date of the annual meeting of stockholders. Under these plans, awards are granted on an annual basis and cliff vest after a one-year service period. When service to PFG ceases, all vesting stops and unvested units are forfeited.

The following is a summary of activity for the nonvested restricted stock units:

	Number of restricted stock units <i>(in millions)</i>	Weighted- average grant-date fair value
Nonvested restricted stock units as of January 1, 2019	2.7	\$ 52.17
Granted	1.1	53.17
Vested	1.2	38.07
Nonvested restricted stock units as of December 31, 2019	<u>2.6</u>	<u>\$ 59.15</u>

The total intrinsic value of restricted stock units vested was \$64.0 million, \$51.1 million and \$59.9 during 2019, 2018 and 2017, respectively.

The fair value of restricted stock units is determined based on the closing stock price of our common shares on the grant date. The weighted-average grant-date fair value of restricted stock units granted during 2019, 2018 and 2017 was \$53.17, \$63.68 and \$62.85, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

18. Stock Based Compensation Plans – (continued)

As of December 31, 2019, we had \$47.0 million of total unrecognized compensation cost related to nonvested restricted stock unit awards granted under these plans. The cost is expected to be recognized over a weighted-average period of approximately 1.7 years.

The actual tax benefits realized for the tax deductions for restricted stock unit payouts under these share-based payment arrangements for 2019, 2018 and 2017 was \$13.2 million, \$10.8 million and \$20.8 million, respectively.

Employee Stock Purchase Plan

Under our Employee Stock Purchase Plan, participating employees had the opportunity to purchase shares of our common stock on a semi-annual basis through 2017. Beginning in 2018, participating employees had the opportunity to purchase shares of our common stock on a quarterly basis. Employees may purchase up to \$25,000 in stock value annually. Employees may purchase shares of our common stock at a price equal to 85% of the shares' fair market value as of the beginning or end of the purchase period, whichever is lower. Under the Employee Stock Purchase Plan, employees purchased 0.9 million, 0.7 million and 0.5 million shares during 2019, 2018 and 2017, respectively.

We recognize compensation expense for the fair value of the discount granted to employees participating in the employee stock purchase plan in the period of grant. Shares of the Employee Stock Purchase Plan are treated as an equity award. The weighted-average fair value of the discount on the stock purchased was \$11.37, \$9.27 and \$14.72 during 2019, 2018 and 2017, respectively. The total intrinsic value of the Employee Stock Purchase Plan shares settled was \$9.7 million, \$6.1 million and \$7.9 million during 2019, 2018 and 2017, respectively.

Cash received from shares issued under these share-based payment arrangements for 2019, 2018 and 2017 was \$36.2 million, \$30.1 million and \$27.6 million, respectively. The actual tax benefit realized for the tax deductions for the settlement of the share-based payment arrangements for 2019, 2018 and 2017 was \$0.9 million, \$0.7 million and \$2.0 million, respectively.

As of December 31, 2019, a total of 1.4 million of new shares were available to be made issuable by us for this plan.

19. Earnings Per Common Share

The computations of the basic and diluted per share amounts were as follows:

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions, except per share data)</i>		
Net income	\$ 1,444.1	\$ 1,553.7	\$ 2,324.5
Subtract:			
Net income attributable to noncontrolling interest	49.9	7.2	14.1
Total	<u>\$ 1,394.2</u>	<u>\$ 1,546.5</u>	<u>\$ 2,310.4</u>
Weighted-average shares outstanding:			
Basic	278.6	285.8	288.9
Dilutive effects:			
Stock options	0.9	1.0	2.0
Restricted stock units	1.4	1.7	2.0
Performance share awards	0.1	0.3	0.2
Diluted	<u>281.0</u>	<u>288.8</u>	<u>293.1</u>
Net income per common share:			
Basic	<u>\$ 5.00</u>	<u>\$ 5.41</u>	<u>\$ 8.00</u>
Diluted	<u>\$ 4.96</u>	<u>\$ 5.36</u>	<u>\$ 7.88</u>

The calculation of diluted earnings per share for the years ended December 31, 2019, 2018 and 2017, excludes the incremental effect related to certain outstanding stock-based compensation grants due to their anti-dilutive effect.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

20. Quarterly Results of Operations (Unaudited)

The following is a summary of unaudited quarterly results of operations.

	For the three months ended ,			
	December 31	September 30	June 30	March 31
	<i>(in millions, except per share data)</i>			
2019				
Total revenues	\$ 4,047.2	\$ 4,458.4	\$ 3,972.6	\$ 3,743.9
Total expenses	3,675.9	4,112.7	3,522.3	3,217.9
Net income	315.3	284.6	392.1	452.1
Net income attributable to PFG	300.9	277.1	386.3	429.9
Basic earnings per common share	1.08	0.99	1.38	1.54
Diluted earnings per common share	1.07	0.98	1.37	1.53
2018				
Total revenues	\$ 3,770.6	\$ 4,348.1	\$ 3,234.9	\$ 2,883.6
Total expenses	3,527.7	3,779.0	2,719.5	2,426.6
Net income	231.7	460.0	459.5	402.5
Net income attributable to PFG	236.5	456.3	456.6	397.1
Basic earnings per common share	0.84	1.60	1.59	1.37
Diluted earnings per common share	0.83	1.59	1.58	1.36

21. Condensed Consolidating Financial Information

Principal Life has established special purpose entities to issue secured medium-term notes. Under the program, the payment obligations of principal and interest on the notes are secured by funding agreements issued by Principal Life. Principal Life's payment obligations on the funding agreements are fully and unconditionally guaranteed by PFG. All of the outstanding stock of Principal Life is indirectly owned by PFG and PFG is the only guarantor of the payment obligations of the funding agreements.

The following tables set forth condensed consolidating financial information of (i) PFG, (ii) Principal Life, (iii) PFS and all other direct and indirect subsidiaries of PFG on a combined basis and (iv) the eliminations necessary to arrive at the information for PFG on a consolidated basis as of December 31, 2019 and December 31, 2018, and for the years ended December 31, 2019, 2018 and 2017.

In presenting the condensed consolidating financial statements, the equity method of accounting has been applied to (i) PFG's interest in all direct subsidiaries of PFG, (ii) Principal Life's interest in all direct subsidiaries of Principal Life and (iii) PFS's interest in Principal Life even though all such subsidiaries meet the requirements to be consolidated under U.S. GAAP. Earnings of subsidiaries are, therefore, reflected in the parent's investment and earnings. All intercompany balances and transactions, including elimination of the parent's investment in subsidiaries, between PFG, Principal Life and PFS and all other subsidiaries have been eliminated, as shown in the column "Eliminations." These condensed consolidating financial statements should be read in conjunction with the consolidated financial statements. The financial information may not necessarily be indicative of results of operations, cash flows or financial position had the subsidiaries operated as independent entities.

PFG sponsors nonqualified benefit plans for select employees and agents and is responsible for the obligations of these plans. Nonqualified plan assets are held in Rabbi trusts for the benefit of all nonqualified plan participants. The Rabbi trusts are separate legal entities and are not a part of PFG on a stand-alone basis. The plan assets are available to satisfy the claims of general creditors only in the event of bankruptcy and are, therefore, consolidated in our statements of financial position.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Financial Position
December 31, 2019

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	(in millions)				
Assets					
Fixed maturities, available-for-sale	\$ 265.8	\$ 62,363.1	\$ 7,833.1	\$ (355.8)	\$ 70,106.2
Fixed maturities, trading	268.2	237.5	170.2	—	675.9
Equity securities	—	69.9	1,809.5	—	1,879.4
Mortgage loans	—	15,388.5	1,793.5	(695.1)	16,486.9
Real estate	—	3.3	1,711.5	—	1,714.8
Policy loans	—	742.2	55.8	—	798.0
Investment in unconsolidated entities	17,539.6	5,036.2	6,429.5	(28,175.1)	830.2
Other investments	10.4	3,682.5	2,859.6	(2,692.5)	3,860.0
Cash and cash equivalents	394.9	1,178.1	1,767.7	(824.8)	2,515.9
Accrued investment income	1.6	608.5	81.4	(4.9)	686.6
Premiums due and other receivables	—	2,082.3	4,525.8	(4,867.8)	1,740.3
Deferred acquisition costs	—	3,509.7	11.6	—	3,521.3
Property and equipment	—	733.9	233.8	—	967.7
Goodwill	—	54.3	1,639.5	—	1,693.8
Other intangibles	—	17.7	1,769.0	—	1,786.7
Separate account assets	—	125,801.7	39,666.3	—	165,468.0
Other assets	383.2	1,118.6	5,358.4	(5,504.1)	1,356.1
Total assets	\$ 18,863.7	\$ 222,628.0	\$ 77,716.2	\$ (43,120.1)	\$ 276,087.8
Liabilities					
Contractholder funds	\$ —	\$ 38,334.6	\$ 3,388.0	\$ (355.1)	\$ 41,367.5
Future policy benefits and claims	—	35,476.6	6,740.7	(1,379.1)	40,838.2
Other policyholder funds	—	790.3	171.9	(2.8)	959.4
Short-term debt	—	—	93.4	—	93.4
Long-term debt	3,625.5	—	763.1	(654.5)	3,734.1
Income taxes currently payable	—	—	81.7	(65.5)	16.2
Deferred income taxes	—	325.8	1,965.9	(495.1)	1,796.6
Separate account liabilities	—	125,801.7	39,666.3	—	165,468.0
Other liabilities	620.2	10,533.5	7,111.2	(11,401.2)	6,863.7
Total liabilities	4,245.7	211,262.5	59,982.2	(14,353.3)	261,137.1
Redeemable noncontrolling interest	—	—	264.9	—	264.9
Stockholders' equity					
Common stock	4.8	2.5	—	(2.5)	4.8
Additional paid-in capital	10,182.6	6,331.5	10,038.7	(16,370.2)	10,182.6
Retained earnings	11,074.3	2,410.8	6,414.3	(8,825.1)	11,074.3
Accumulated other comprehensive income	1,037.9	2,620.7	948.3	(3,569.0)	1,037.9
Treasury stock, at cost	(7,681.6)	—	—	—	(7,681.6)
Total stockholders' equity attributable to PFG	14,618.0	11,365.5	17,401.3	(28,766.8)	14,618.0
Noncontrolling interest	—	—	67.8	—	67.8
Total stockholders' equity	14,618.0	11,365.5	17,469.1	(28,766.8)	14,685.8
Total liabilities and stockholders' equity	\$ 18,863.7	\$ 222,628.0	\$ 77,716.2	\$ (43,120.1)	\$ 276,087.8

(1) PFG sponsors nonqualified benefit plans. Nonqualified benefit plan assets and liabilities held in Rabbi trusts were \$731.9 million and \$593.7 million, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Financial Position
December 31, 2018

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Assets					
Fixed maturities, available-for-sale	\$ 211.5	\$ 53,401.7	\$ 6,857.9	\$ (362.6)	\$ 60,108.5
Fixed maturities, trading	308.9	165.5	161.7	—	636.1
Equity securities	—	84.8	1,758.9	—	1,843.7
Mortgage loans	—	14,478.0	1,615.5	(756.6)	15,336.9
Real estate	—	1.9	1,727.8	—	1,729.7
Policy loans	—	755.9	45.5	—	801.4
Investment in unconsolidated entities	13,862.4	2,324.4	6,853.8	(22,171.8)	868.8
Other investments	10.7	5,549.1	2,517.6	(4,635.9)	3,441.5
Cash and cash equivalents	334.9	1,323.9	2,014.8	(696.1)	2,977.5
Accrued investment income	1.4	563.2	77.5	(5.9)	636.2
Premiums due and other receivables	—	1,818.1	3,781.3	(4,186.3)	1,413.1
Deferred acquisition costs	—	3,680.2	13.3	—	3,693.5
Property and equipment	—	661.3	106.0	—	767.3
Goodwill	—	54.3	1,045.7	—	1,100.0
Other intangibles	—	19.7	1,295.4	—	1,315.1
Separate account assets	—	107,343.0	37,644.9	—	144,987.9
Other assets	375.0	1,135.1	4,418.3	(4,549.5)	1,378.9
Total assets	\$ 15,104.8	\$ 193,360.1	\$ 71,935.9	\$ (37,364.7)	\$ 243,036.1
Liabilities					
Contractholder funds	\$ —	\$ 36,861.7	\$ 3,189.2	\$ (351.2)	\$ 39,699.7
Future policy benefits and claims	—	30,690.3	6,128.6	(1,154.1)	35,664.8
Other policyholder funds	—	725.7	165.3	(2.6)	888.4
Short-term debt	—	—	42.9	—	42.9
Long-term debt	3,129.8	—	851.2	(721.4)	3,259.6
Income taxes currently payable	—	—	80.7	(55.4)	25.3
Deferred income taxes	—	405.3	1,056.4	(503.3)	958.4
Separate account liabilities	—	107,343.0	37,644.9	—	144,987.9
Other liabilities	585.0	8,503.2	8,586.5	(12,012.8)	5,661.9
Total liabilities	3,714.8	184,529.2	57,745.7	(14,800.8)	231,188.9
Redeemable noncontrolling interest	—	—	391.2	—	391.2
Stockholders' equity					
Common stock	4.8	2.5	—	(2.5)	4.8
Additional paid-in capital	10,060.7	6,331.6	9,461.2	(15,792.8)	10,060.7
Retained earnings	10,290.2	2,441.2	5,855.0	(8,296.2)	10,290.2
Accumulated other comprehensive income (loss)	(1,565.1)	55.6	(1,583.2)	1,527.6	(1,565.1)
Treasury stock, at cost	(7,400.6)	—	—	—	(7,400.6)
Total stockholders' equity attributable to PFG	11,390.0	8,830.9	13,733.0	(22,563.9)	11,390.0
Noncontrolling interest	—	—	66.0	—	66.0
Total stockholders' equity	11,390.0	8,830.9	13,799.0	(22,563.9)	11,456.0
Total liabilities and stockholders' equity	\$ 15,104.8	\$ 193,360.1	\$ 71,935.9	\$ (37,364.7)	\$ 243,036.1

(1) PFG sponsors nonqualified benefit plans. Nonqualified benefit plan assets and liabilities held in Rabbi trusts were \$671.7 million and \$542.4 million, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Operations
For the year ended December 31, 2019

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Revenues					
Premiums and other considerations	\$ —	\$ 7,189.2	\$ 677.4	\$ —	\$ 7,866.6
Fees and other revenues	—	2,343.9	2,461.9	(395.9)	4,409.9
Net investment income	19.4	2,843.7	2,223.9	(1,088.6)	3,998.4
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	12.3	(3,509.5)	3,488.5	(0.6)	(9.3)
Net other-than-temporary impairment losses on available-for-sale securities	—	(35.6)	(2.7)	—	(38.3)
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from other comprehensive income	—	(4.7)	(0.5)	—	(5.2)
Net impairment losses on available-for-sale securities	—	(40.3)	(3.2)	—	(43.5)
Net realized capital gains (losses)	12.3	(3,549.8)	3,485.3	(0.6)	(52.8)
Total revenues	31.7	8,827.0	8,848.5	(1,485.1)	16,222.1
Expenses					
Benefits, claims and settlement expenses	—	8,940.7	976.4	(11.3)	9,905.8
Dividends to policyholders	—	119.1	—	—	119.1
Operating expenses	210.9	2,460.0	2,206.2	(373.2)	4,503.9
Total expenses	210.9	11,519.8	3,182.6	(384.5)	14,528.8
Income (loss) before income taxes	(179.2)	(2,692.8)	5,665.9	(1,100.6)	1,693.3
Income taxes (benefits)	(44.2)	(685.5)	980.2	(1.3)	249.2
Equity in the net income (loss) of subsidiaries	1,529.2	3,121.0	(3,115.6)	(1,534.6)	—
Net income	1,394.2	1,113.7	1,570.1	(2,633.9)	1,444.1
Net income attributable to noncontrolling interest	—	—	49.9	—	49.9
Net income attributable to PFG	<u>\$ 1,394.2</u>	<u>\$ 1,113.7</u>	<u>\$ 1,520.2</u>	<u>\$ (2,633.9)</u>	<u>\$ 1,394.2</u>
Net income	\$ 1,394.2	\$ 1,113.7	\$ 1,570.1	\$ (2,633.9)	\$ 1,444.1
Other comprehensive income	2,570.9	2,564.6	2,654.0	(5,182.8)	2,606.7
Comprehensive income	<u>\$ 3,965.1</u>	<u>\$ 3,678.3</u>	<u>\$ 4,224.1</u>	<u>\$ (7,816.7)</u>	<u>\$ 4,050.8</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Operations
For the year ended December 31, 2018

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Revenues					
Premiums and other considerations	\$ —	\$ 5,846.0	\$ 563.6	\$ —	\$ 6,409.6
Fees and other revenues	—	2,174.4	2,487.0	(387.6)	4,273.8
Net investment income	25.8	2,655.7	2,192.6	(1,244.9)	3,629.2
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	(8.2)	118.8	(175.1)	18.2	(46.3)
Net other-than-temporary impairment (losses) recoveries on available-for-sale securities	—	14.1	(3.5)	—	10.6
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified to (from) other comprehensive income	—	(40.1)	0.4	—	(39.7)
Net impairment losses on available-for-sale securities	—	(26.0)	(3.1)	—	(29.1)
Net realized capital gains (losses)	(8.2)	92.8	(178.2)	18.2	(75.4)
Total revenues	17.6	10,768.9	5,065.0	(1,614.3)	14,237.2
Expenses					
Benefits, claims and settlement expenses	—	7,346.3	857.1	(10.9)	8,192.5
Dividends to policyholders	—	123.6	—	—	123.6
Operating expenses	191.9	2,320.1	1,982.7	(358.0)	4,136.7
Total expenses	191.9	9,790.0	2,839.8	(368.9)	12,452.8
Income (loss) before income taxes	(174.3)	978.9	2,225.2	(1,245.4)	1,784.4
Income taxes (benefits)	(62.5)	60.0	235.0	(1.8)	230.7
Equity in the net income (loss) of subsidiaries	1,658.3	334.7	(335.3)	(1,657.7)	—
Net income	1,546.5	1,253.6	1,654.9	(2,901.3)	1,553.7
Net income attributable to noncontrolling interest	—	—	7.2	—	7.2
Net income attributable to PFG	<u>\$ 1,546.5</u>	<u>\$ 1,253.6</u>	<u>\$ 1,647.7</u>	<u>\$ (2,901.3)</u>	<u>\$ 1,546.5</u>
Net income	\$ 1,546.5	\$ 1,253.6	\$ 1,654.9	\$ (2,901.3)	\$ 1,553.7
Other comprehensive loss	(1,824.5)	(1,548.5)	(1,928.5)	3,465.8	(1,835.7)
Comprehensive loss	<u>\$ (278.0)</u>	<u>\$ (294.9)</u>	<u>\$ (273.6)</u>	<u>\$ 564.5</u>	<u>\$ (282.0)</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Operations
For the year ended December 31, 2017

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Revenues					
Premiums and other considerations	\$ —	\$ 5,777.7	\$ 439.7	\$ —	\$ 6,217.4
Fees and other revenues	7.8	2,140.9	2,163.4	(419.8)	3,892.3
Net investment income	9.7	2,533.1	3,180.9	(2,264.4)	3,459.3
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	(0.6)	(84.5)	691.8	(0.7)	606.0
Net other-than-temporary impairment losses on available-for-sale securities	—	(28.2)	(0.5)	—	(28.7)
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from other comprehensive income	—	(46.4)	(6.7)	—	(53.1)
Net impairment losses on available-for-sale securities	—	(74.6)	(7.2)	—	(81.8)
Net realized capital gains (losses)	(0.6)	(159.1)	684.6	(0.7)	524.2
Total revenues	16.9	10,292.6	6,468.6	(2,684.9)	14,093.2
Expenses					
Benefits, claims and settlement expenses	—	7,153.5	679.9	(10.8)	7,822.6
Dividends to policyholders	—	124.6	—	—	124.6
Operating expenses	238.1	2,185.4	1,823.2	(352.9)	3,893.8
Total expenses	238.1	9,463.5	2,503.1	(363.7)	11,841.0
Income (loss) before income taxes	(221.2)	829.1	3,965.5	(2,321.2)	2,252.2
Income taxes (benefits)	63.1	(540.1)	376.4	28.3	(72.3)
Equity in the net income (loss) of subsidiaries (1)	2,594.7	901.5	(1,005.3)	(2,490.9)	—
Net income	2,310.4	2,270.7	2,583.8	(4,840.4)	2,324.5
Net income attributable to noncontrolling interest	—	—	14.1	—	14.1
Net income attributable to PFG	<u>\$ 2,310.4</u>	<u>\$ 2,270.7</u>	<u>\$ 2,569.7</u>	<u>\$ (4,840.4)</u>	<u>\$ 2,310.4</u>
Net income	\$ 2,310.4	\$ 2,270.7	\$ 2,583.8	\$ (4,840.4)	\$ 2,324.5
Other comprehensive income	840.3	611.6	877.6	(1,485.2)	844.3
Comprehensive income	<u>\$ 3,150.7</u>	<u>\$ 2,882.3</u>	<u>\$ 3,461.4</u>	<u>\$ (6,325.6)</u>	<u>\$ 3,168.8</u>

(1) Principal Life Insurance Company Only includes income from discontinued operations of \$35.5 million related to its sale of Principal Global Investors, LLC to PFS in connection with a corporate reorganization.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Cash Flows
For the year ended December 31, 2019

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined	Eliminations	Principal Financial Group, Inc. consolidated
<i>(in millions)</i>					
Operating activities					
Net cash provided by operating activities	\$ 7.1	\$ 2,292.0	\$ 650.5	\$ 2,543.6	\$ 5,493.2
Investing activities					
Fixed maturities available-for-sale and equity securities with intent to hold:					
Purchases	(251.5)	(11,482.9)	(2,402.7)	—	(14,137.1)
Sales	—	1,411.0	988.9	(2.5)	2,397.4
Maturities	200.0	6,123.0	741.2	—	7,064.2
Mortgage loans acquired or originated	—	(2,943.6)	(555.9)	11.8	(3,487.7)
Mortgage loans sold or repaid	—	2,030.8	372.0	(66.9)	2,335.9
Real estate acquired	—	(0.3)	(127.2)	—	(127.5)
Real estate sold	—	—	96.3	—	96.3
Net purchases of property and equipment	(0.1)	(52.9)	(79.4)	—	(132.4)
Purchase of business or interests in subsidiaries, net of cash acquired	—	—	(1,208.5)	—	(1,208.5)
Dividends and returns of capital received from unconsolidated entities	494.2	2.2	1,169.2	(1,665.6)	—
Net change in other investments	(34.0)	2,646.8	(420.3)	(2,681.6)	(489.1)
Net cash provided by (used in) investing activities	408.6	(2,265.9)	(1,426.4)	(4,404.8)	(7,688.5)
Financing activities					
Issuance of common stock	37.7	—	—	—	37.7
Acquisition of treasury stock	(281.0)	—	—	—	(281.0)
Payments for financing element derivatives	—	(26.9)	—	—	(26.9)
Purchase of subsidiary shares from noncontrolling interest	—	—	(1.7)	—	(1.7)
Dividends to common stockholders	(606.0)	—	—	—	(606.0)
Issuance of long-term debt	493.6	—	11.3	—	504.9
Principal repayments of long-term debt	—	—	(99.1)	66.9	(32.2)
Net proceeds from short-term borrowings	—	—	57.5	—	57.5
Dividends and capital paid to parent	—	(1,169.2)	(496.4)	1,665.6	—
Investment contract deposits	—	8,727.6	472.4	—	9,200.0
Investment contract withdrawals	—	(7,709.4)	(38.3)	—	(7,747.7)
Net increase in banking operation deposits	—	—	623.4	—	623.4
Other	—	6.0	(0.3)	—	5.7
Net cash provided by (used in) financing activities	(355.7)	(171.9)	528.8	1,732.5	1,733.7
Net increase (decrease) in cash and cash equivalents	60.0	(145.8)	(247.1)	(128.7)	(461.6)
Cash and cash equivalents at beginning of period	334.9	1,323.9	2,014.8	(696.1)	2,977.5
Cash and cash equivalents at end of period	<u>\$ 394.9</u>	<u>\$ 1,178.1</u>	<u>\$ 1,767.7</u>	<u>\$ (824.8)</u>	<u>\$ 2,515.9</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Cash Flows
For the year ended December 31, 2018

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Operating activities					
Net cash provided by (used in) operating activities	\$ (132.4)	\$ 5,410.9	\$ 473.1	\$ (595.1)	\$ 5,156.5
Investing activities					
Fixed maturities available-for-sale and equity securities with intent to hold:					
Purchases	(210.9)	(11,457.5)	(2,249.2)	7.8	(13,909.8)
Sales	—	2,557.9	1,255.2	—	3,813.1
Maturities	2.3	5,660.9	554.4	—	6,217.6
Mortgage loans acquired or originated	—	(3,060.0)	(497.0)	109.5	(3,447.5)
Mortgage loans sold or repaid	—	1,967.4	297.8	(36.8)	2,228.4
Real estate acquired	—	—	(88.1)	—	(88.1)
Real estate sold	—	—	63.5	—	63.5
Net purchases of property and equipment	(0.1)	(50.5)	(41.7)	—	(92.3)
Purchase of business or interests in subsidiaries, net of cash acquired	—	—	(184.7)	—	(184.7)
Dividends and returns of capital received from unconsolidated entities	1,041.6	50.1	861.6	(1,953.3)	—
Net change in other investments	(2.2)	(626.1)	120.7	204.9	(302.7)
Net cash provided by (used in) investing activities	830.7	(4,957.8)	92.5	(1,667.9)	(5,702.5)
Financing activities					
Issuance of common stock	64.0	—	—	—	64.0
Acquisition of treasury stock	(671.6)	—	—	—	(671.6)
Payments for financing element derivatives	—	(65.9)	—	—	(65.9)
Purchase of subsidiary shares from noncontrolling interest	—	—	(31.1)	—	(31.1)
Dividends to common stockholders	(598.6)	—	—	—	(598.6)
Issuance of long-term debt	—	—	178.9	(98.1)	80.8
Principal repayments of long-term debt	—	—	(38.1)	36.8	(1.3)
Net proceeds from short-term borrowings	—	—	8.5	—	8.5
Dividends and capital paid to parent	—	(861.6)	(1,091.7)	1,953.3	—
Investment contract deposits	—	7,896.0	412.8	—	8,308.8
Investment contract withdrawals	—	(6,520.1)	(69.5)	—	(6,589.6)
Net increase in banking operation deposits	—	—	553.0	—	553.0
Other	—	(4.3)	—	—	(4.3)
Net cash provided by (used in) financing activities	(1,206.2)	444.1	(77.2)	1,892.0	1,052.7
Net increase (decrease) in cash and cash equivalents	(507.9)	897.2	488.4	(371.0)	506.7
Cash and cash equivalents at beginning of period	842.8	426.7	1,526.4	(325.1)	2,470.8
Cash and cash equivalents at end of period	<u>\$ 334.9</u>	<u>\$ 1,323.9</u>	<u>\$ 2,014.8</u>	<u>\$ (696.1)</u>	<u>\$ 2,977.5</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Cash Flows
For the year ended December 31, 2017

	Principal Financial Group, Inc. parent only	Principal Life Insurance Company only	Principal Financial Services, Inc. and other subsidiaries combined	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Operating activities					
Net cash provided by (used in) operating activities	\$ (443.2)	\$ 5,571.5	\$ (2,114.7)	\$ 1,174.4	\$ 4,188.0
Investing activities					
Fixed maturities available-for-sale and equity securities with intent to hold:					
Purchases	—	(12,054.5)	(1,317.1)	—	(13,371.6)
Sales	—	1,005.3	425.1	(16.8)	1,413.6
Maturities	—	7,894.7	848.5	—	8,743.2
Mortgage loans acquired or originated	—	(2,629.8)	(448.1)	322.1	(2,755.8)
Mortgage loans sold or repaid	—	1,696.2	388.4	(212.6)	1,872.0
Real estate acquired	—	—	(200.5)	—	(200.5)
Real estate sold	—	—	481.9	—	481.9
Net purchases of property and equipment	(0.1)	(108.1)	(56.6)	—	(164.8)
Dividends and returns of capital received from unconsolidated entities	1,002.5	149.7	1,845.9	(2,998.1)	—
Net change in other investments	(1.1)	281.9	155.4	(507.0)	(70.8)
Net cash provided by (used in) investing activities	1,001.3	(3,764.6)	2,122.9	(3,412.4)	(4,052.8)
Financing activities					
Issuance of common stock	162.5	—	—	—	162.5
Acquisition of treasury stock	(220.4)	—	—	—	(220.4)
Proceeds from financing element derivatives	—	0.1	—	—	0.1
Payments for financing element derivatives	—	(77.6)	—	—	(77.6)
Purchase of subsidiary shares from noncontrolling interest	—	—	(16.2)	2.9	(13.3)
Sale of subsidiary shares to noncontrolling interest	—	—	2.9	(2.9)	—
Dividends to common stockholders	(540.0)	—	—	—	(540.0)
Issuance of long-term debt	—	—	380.5	(377.7)	2.8
Principal repayments of long-term debt	—	—	(269.9)	213.4	(56.5)
Net repayments of short-term borrowings	—	—	(15.5)	—	(15.5)
Dividends and capital paid to parent	—	(1,845.9)	(1,152.2)	2,998.1	—
Investment contract deposits	—	9,760.5	393.9	—	10,154.4
Investment contract withdrawals	—	(9,889.9)	(24.7)	—	(9,914.6)
Net increase in banking operation deposits	—	—	136.6	—	136.6
Other	—	(2.5)	—	—	(2.5)
Net cash used in financing activities	(597.9)	(2,055.3)	(564.6)	2,833.8	(384.0)
Net decrease in cash and cash equivalents	(39.8)	(248.4)	(556.4)	595.8	(248.8)
Cash and cash equivalents at beginning of period	882.6	675.1	2,082.8	(920.9)	2,719.6
Cash and cash equivalents at end of period	<u>\$ 842.8</u>	<u>\$ 426.7</u>	<u>\$ 1,526.4</u>	<u>\$ (325.1)</u>	<u>\$ 2,470.8</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Under our current shelf registration that was filed with the SEC and became effective May 3, 2017, we have the ability to issue, in unlimited amounts, unsecured senior debt securities or subordinated debt securities, junior subordinated debt, preferred stock, common stock, warrants, depositary shares, purchase contracts and purchase units of PFG. Our wholly owned subsidiary, PFS, may guarantee, fully and unconditionally or otherwise, our obligations with respect to any non-convertible securities, other than common stock, described in the shelf registration.

The following tables set forth condensed consolidating financial information of (i) PFG, (ii) PFS, (iii) Principal Life and all other direct and indirect subsidiaries of PFG on a combined basis and (iv) the eliminations necessary to arrive at the information for PFG on a consolidated basis as of December 31, 2019 and December 31, 2018, and for the years ended December 31, 2019, 2018 and 2017.

In presenting the condensed consolidating financial statements, the equity method of accounting has been applied to (i) PFG's interest in all direct subsidiaries of PFG and (ii) PFS's interest in Principal Life and all other subsidiaries, where applicable, even though all such subsidiaries meet the requirements to be consolidated under U.S. GAAP. Earnings of subsidiaries are, therefore, reflected in the parent's investment and earnings. All intercompany balances and transactions, including elimination of the parent's investment in subsidiaries, between PFG, PFS and Principal Life and all other subsidiaries have been eliminated, as shown in the column "Eliminations." These condensed consolidating financial statements should be read in conjunction with the consolidated financial statements. The financial information may not necessarily be indicative of results of operations, cash flows or financial position had the subsidiaries operated as independent entities.

PFG sponsors nonqualified benefit plans for select employees and agents and is responsible for the obligations of these plans. Nonqualified plan assets are held in Rabbi trusts for the benefit of all nonqualified plan participants. The Rabbi trusts are separate legal entities and are not a part of PFG on a stand-alone basis. The plan assets are available to satisfy the claims of general creditors only in the event of bankruptcy and are, therefore, consolidated in our statements of financial position.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Financial Position
December 31, 2019

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Assets					
Fixed maturities, available-for-sale	\$ 265.8	\$ —	\$ 69,840.4	\$ —	\$ 70,106.2
Fixed maturities, trading	268.2	—	407.7	—	675.9
Equity securities	—	41.4	1,838.0	—	1,879.4
Mortgage loans	—	—	16,486.9	—	16,486.9
Real estate	—	—	1,714.8	—	1,714.8
Policy loans	—	—	798.0	—	798.0
Investment in unconsolidated entities	17,539.6	16,664.1	649.4	(34,022.9)	830.2
Other investments	10.4	251.9	3,597.7	—	3,860.0
Cash and cash equivalents	394.9	598.4	2,656.2	(1,133.6)	2,515.9
Accrued investment income	1.6	0.4	684.6	—	686.6
Premiums due and other receivables	—	100.0	1,961.1	(320.8)	1,740.3
Deferred acquisition costs	—	—	3,521.3	—	3,521.3
Property and equipment	—	—	967.7	—	967.7
Goodwill	—	618.5	1,075.3	—	1,693.8
Other intangibles	—	531.7	1,255.0	—	1,786.7
Separate account assets	—	—	165,468.0	—	165,468.0
Other assets	383.2	35.2	1,509.5	(571.8)	1,356.1
Total assets	<u>\$ 18,863.7</u>	<u>\$ 18,841.6</u>	<u>\$ 274,431.6</u>	<u>\$ (36,049.1)</u>	<u>\$ 276,087.8</u>
Liabilities					
Contractholder funds	\$ —	\$ —	\$ 41,367.5	\$ —	\$ 41,367.5
Future policy benefits and claims	—	—	40,838.2	—	40,838.2
Other policyholder funds	—	—	959.4	—	959.4
Short-term debt	—	—	93.4	—	93.4
Long-term debt	3,625.5	320.7	108.7	(320.8)	3,734.1
Income taxes currently payable	—	—	66.4	(50.2)	16.2
Deferred income taxes	—	5.9	2,285.8	(495.1)	1,796.6
Separate account liabilities	—	—	165,468.0	—	165,468.0
Other liabilities	620.2	1,113.6	6,104.7	(974.8)	6,863.7
Total liabilities	<u>4,245.7</u>	<u>1,440.2</u>	<u>257,292.1</u>	<u>(1,840.9)</u>	<u>261,137.1</u>
Redeemable noncontrolling interest	—	—	264.9	—	264.9
Stockholders' equity					
Common stock	4.8	—	11.0	(11.0)	4.8
Additional paid-in capital	10,182.6	9,658.3	12,157.9	(21,816.2)	10,182.6
Retained earnings	11,074.3	6,263.5	2,985.1	(9,248.6)	11,074.3
Accumulated other comprehensive income	1,037.9	1,479.6	1,654.8	(3,134.4)	1,037.9
Treasury stock, at cost	(7,681.6)	—	(2.0)	2.0	(7,681.6)
Total stockholders' equity attributable to PFG	<u>14,618.0</u>	<u>17,401.4</u>	<u>16,806.8</u>	<u>(34,208.2)</u>	<u>14,618.0</u>
Noncontrolling interest	—	—	67.8	—	67.8
Total stockholders' equity	<u>14,618.0</u>	<u>17,401.4</u>	<u>16,874.6</u>	<u>(34,208.2)</u>	<u>14,685.8</u>
Total liabilities and stockholders' equity	<u>\$ 18,863.7</u>	<u>\$ 18,841.6</u>	<u>\$ 274,431.6</u>	<u>\$ (36,049.1)</u>	<u>\$ 276,087.8</u>

(1) PFG sponsors nonqualified benefit plans. Nonqualified benefit plan assets and liabilities held in Rabbi trusts were \$731.9 million and \$593.7 million, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Financial Position
December 31, 2018

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Assets					
Fixed maturities, available-for-sale	\$ 211.5	\$ —	\$ 59,897.0	\$ —	\$ 60,108.5
Fixed maturities, trading	308.9	—	327.2	—	636.1
Equity securities	—	11.9	1,831.8	—	1,843.7
Mortgage loans	—	—	15,336.9	—	15,336.9
Real estate	—	—	1,729.7	—	1,729.7
Policy loans	—	—	801.4	—	801.4
Investment in unconsolidated entities	13,862.4	14,325.5	726.0	(28,045.1)	868.8
Other investments	10.7	100.9	3,329.9	—	3,441.5
Cash and cash equivalents	334.9	649.0	3,096.8	(1,103.2)	2,977.5
Accrued investment income	1.4	0.3	634.5	—	636.2
Premiums due and other receivables	—	0.5	1,779.6	(367.0)	1,413.1
Deferred acquisition costs	—	—	3,693.5	—	3,693.5
Property and equipment	—	—	767.3	—	767.3
Goodwill	—	—	1,100.0	—	1,100.0
Other intangibles	—	—	1,315.1	—	1,315.1
Separate account assets	—	—	144,987.9	—	144,987.9
Other assets	375.0	38.7	1,521.9	(556.7)	1,378.9
Total assets	<u>\$ 15,104.8</u>	<u>\$ 15,126.8</u>	<u>\$ 242,876.5</u>	<u>\$ (30,072.0)</u>	<u>\$ 243,036.1</u>
Liabilities					
Contractholder funds	\$ —	\$ —	\$ 39,699.7	\$ —	\$ 39,699.7
Future policy benefits and claims	—	—	35,664.8	—	35,664.8
Other policyholder funds	—	—	888.4	—	888.4
Short-term debt	—	—	42.9	—	42.9
Long-term debt	3,129.8	366.7	129.9	(366.8)	3,259.6
Income taxes currently payable	—	9.8	61.5	(46.0)	25.3
Deferred income taxes	—	13.9	1,446.4	(501.9)	958.4
Separate account liabilities	—	—	144,987.9	—	144,987.9
Other liabilities	585.0	1,002.9	4,838.1	(764.1)	5,661.9
Total liabilities	<u>3,714.8</u>	<u>1,393.3</u>	<u>227,759.6</u>	<u>(1,678.8)</u>	<u>231,188.9</u>
Redeemable noncontrolling interest	—	—	391.2	—	391.2
Stockholders' equity					
Common stock	4.8	—	11.0	(11.0)	4.8
Additional paid-in capital	10,060.7	9,100.0	12,004.5	(21,104.5)	10,060.7
Retained earnings	10,290.2	5,716.8	3,549.8	(9,266.6)	10,290.2
Accumulated other comprehensive loss	(1,565.1)	(1,083.3)	(903.6)	1,986.9	(1,565.1)
Treasury stock, at cost	(7,400.6)	—	(2.0)	2.0	(7,400.6)
Total stockholders' equity attributable to PFG	<u>11,390.0</u>	<u>13,733.5</u>	<u>14,659.7</u>	<u>(28,393.2)</u>	<u>11,390.0</u>
Noncontrolling interest	—	—	66.0	—	66.0
Total stockholders' equity	<u>11,390.0</u>	<u>13,733.5</u>	<u>14,725.7</u>	<u>(28,393.2)</u>	<u>11,456.0</u>
Total liabilities and stockholders' equity	<u>\$ 15,104.8</u>	<u>\$ 15,126.8</u>	<u>\$ 242,876.5</u>	<u>\$ (30,072.0)</u>	<u>\$ 243,036.1</u>

(1) PFG sponsors nonqualified benefit plans. Nonqualified benefit plan assets and liabilities held in Rabbi trusts were \$671.7 million and \$542.4 million, respectively.

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Operations
For the year ended December 31, 2019

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Revenues					
Premiums and other considerations	\$ —	\$ —	\$ 7,866.6	\$ —	\$ 7,866.6
Fees and other revenues	—	205.9	4,215.5	(11.5)	4,409.9
Net investment income (loss)	19.4	(6.5)	3,975.1	10.4	3,998.4
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	12.3	17.5	(38.9)	(0.2)	(9.3)
Net other-than-temporary impairment losses on available-for-sale securities	—	—	(38.3)	—	(38.3)
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from other comprehensive income	—	—	(5.2)	—	(5.2)
Net impairment losses on available-for-sale securities	—	—	(43.5)	—	(43.5)
Net realized capital gains (losses)	12.3	17.5	(82.4)	(0.2)	(52.8)
Total revenues	31.7	216.9	15,974.8	(1.3)	16,222.1
Expenses					
Benefits, claims and settlement expenses	—	—	9,905.8	—	9,905.8
Dividends to policyholders	—	—	119.1	—	119.1
Operating expenses	210.9	368.2	3,935.1	(10.3)	4,503.9
Total expenses	210.9	368.2	13,960.0	(10.3)	14,528.8
Income (loss) before income taxes	(179.2)	(151.3)	2,014.8	9.0	1,693.3
Income taxes (benefits)	(44.2)	(11.8)	305.2	—	249.2
Equity in the net income of subsidiaries	1,529.2	1,659.7	—	(3,188.9)	—
Net income	1,394.2	1,520.2	1,709.6	(3,179.9)	1,444.1
Net income attributable to noncontrolling interest	—	—	49.9	—	49.9
Net income attributable to PFG	<u>\$ 1,394.2</u>	<u>\$ 1,520.2</u>	<u>\$ 1,659.7</u>	<u>\$ (3,179.9)</u>	<u>\$ 1,394.2</u>
Net income	\$ 1,394.2	\$ 1,520.2	\$ 1,709.6	\$ (3,179.9)	\$ 1,444.1
Other comprehensive income	2,570.9	2,530.9	2,562.2	(5,057.3)	2,606.7
Comprehensive income	<u>\$ 3,965.1</u>	<u>\$ 4,051.1</u>	<u>\$ 4,271.8</u>	<u>\$ (8,237.2)</u>	<u>\$ 4,050.8</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Operations
For the year ended December 31, 2018

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Revenues					
Premiums and other considerations	\$ —	\$ —	\$ 6,409.6	\$ —	\$ 6,409.6
Fees and other revenues	—	2.7	4,286.4	(15.3)	4,273.8
Net investment income (loss)	25.8	(6.7)	3,598.0	12.1	3,629.2
Net realized capital losses, excluding impairment losses on available-for-sale securities	(8.2)	(3.5)	(34.6)	—	(46.3)
Net other-than-temporary impairment recoveries on available-for-sale securities	—	—	10.6	—	10.6
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from other comprehensive income	—	—	(39.7)	—	(39.7)
Net impairment losses on available-for-sale securities	—	—	(29.1)	—	(29.1)
Net realized capital losses	(8.2)	(3.5)	(63.7)	—	(75.4)
Total revenues	17.6	(7.5)	14,230.3	(3.2)	14,237.2
Expenses					
Benefits, claims and settlement expenses	—	—	8,192.5	—	8,192.5
Dividends to policyholders	—	—	123.6	—	123.6
Operating expenses	191.9	29.1	3,929.5	(13.8)	4,136.7
Total expenses	191.9	29.1	12,245.6	(13.8)	12,452.8
Income (loss) before income taxes	(174.3)	(36.6)	1,984.7	10.6	1,784.4
Income taxes (benefits)	(62.5)	0.2	293.0	—	230.7
Equity in the net income of subsidiaries	1,658.3	1,684.5	—	(3,342.8)	—
Net income	1,546.5	1,647.7	1,691.7	(3,332.2)	1,553.7
Net income attributable to noncontrolling interest	—	—	7.2	—	7.2
Net income attributable to PFG	<u>\$ 1,546.5</u>	<u>\$ 1,647.7</u>	<u>\$ 1,684.5</u>	<u>\$ (3,332.2)</u>	<u>\$ 1,546.5</u>
Net income	\$ 1,546.5	\$ 1,647.7	\$ 1,691.7	\$ (3,332.2)	\$ 1,553.7
Other comprehensive loss	(1,824.5)	(1,839.1)	(1,856.4)	3,684.3	(1,835.7)
Comprehensive loss	<u>\$ (278.0)</u>	<u>\$ (191.4)</u>	<u>\$ (164.7)</u>	<u>\$ 352.1</u>	<u>\$ (282.0)</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Operations
For the year ended December 31, 2017

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Revenues					
Premiums and other considerations	\$ —	\$ —	\$ 6,217.4	\$ —	\$ 6,217.4
Fees and other revenues	7.8	0.2	3,894.7	(10.4)	3,892.3
Net investment income (loss)	9.7	(2.8)	3,396.5	55.9	3,459.3
Net realized capital gains (losses), excluding impairment losses on available-for-sale securities	(0.6)	4.2	602.4	—	606.0
Net other-than-temporary impairment losses on available-for-sale securities	—	—	(28.7)	—	(28.7)
Other-than-temporary impairment losses on fixed maturities, available-for-sale reclassified from other comprehensive income	—	—	(53.1)	—	(53.1)
Net impairment losses on available-for-sale securities	—	—	(81.8)	—	(81.8)
Net realized capital gains (losses)	(0.6)	4.2	520.6	—	524.2
Total revenues	16.9	1.6	14,029.2	45.5	14,093.2
Expenses					
Benefits, claims and settlement expenses	—	—	7,822.6	—	7,822.6
Dividends to policyholders	—	—	124.6	—	124.6
Operating expenses	238.1	48.4	3,616.9	(9.6)	3,893.8
Total expenses	238.1	48.4	11,564.1	(9.6)	11,841.0
Income (loss) before income taxes	(221.2)	(46.8)	2,465.1	55.1	2,252.2
Income taxes (benefits)	63.1	115.4	(280.9)	30.1	(72.3)
Equity in the net income of subsidiaries	2,594.7	2,731.9	—	(5,326.6)	—
Net income	2,310.4	2,569.7	2,746.0	(5,301.6)	2,324.5
Net income attributable to noncontrolling interest	—	—	14.1	—	14.1
Net income attributable to PFG	<u>\$ 2,310.4</u>	<u>\$ 2,569.7</u>	<u>\$ 2,731.9</u>	<u>\$ (5,301.6)</u>	<u>\$ 2,310.4</u>
Net income	\$ 2,310.4	\$ 2,569.7	\$ 2,746.0	\$ (5,301.6)	\$ 2,324.5
Other comprehensive income	840.3	809.8	801.8	(1,607.6)	844.3
Comprehensive income	<u>\$ 3,150.7</u>	<u>\$ 3,379.5</u>	<u>\$ 3,547.8</u>	<u>\$ (6,909.2)</u>	<u>\$ 3,168.8</u>

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Cash Flows
For the year ended December 31, 2019

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Operating activities					
Net cash provided by (used in) operating activities	\$ 7.1	\$ (54.7)	\$ 5,760.7	\$ (219.9)	\$ 5,493.2
Investing activities					
Fixed maturities available-for-sale and equity securities with intent to hold:					
Purchases	(251.5)	(0.2)	(13,885.4)	—	(14,137.1)
Sales	—	0.2	2,397.2	—	2,397.4
Maturities	200.0	—	6,864.2	—	7,064.2
Mortgage loans acquired or originated	—	—	(3,487.7)	—	(3,487.7)
Mortgage loans sold or repaid	—	—	2,335.9	—	2,335.9
Real estate acquired	—	—	(127.5)	—	(127.5)
Real estate sold	—	—	96.3	—	96.3
Net purchases of property and equipment	(0.1)	(2.0)	(130.3)	—	(132.4)
Purchase of business or interests in subsidiaries, net of cash acquired	—	(1,209.6)	1.1	—	(1,208.5)
Dividends and returns of capital received from unconsolidated entities	494.2	2,118.7	—	(2,612.9)	—
Net change in other investments	(34.0)	(362.9)	(235.8)	143.6	(489.1)
Net cash provided by (used in) investing activities	408.6	544.2	(6,172.0)	(2,469.3)	(7,688.5)
Financing activities					
Issuance of common stock	37.7	—	—	—	37.7
Acquisition of treasury stock	(281.0)	—	—	—	(281.0)
Payments for financing element derivatives	—	—	(26.9)	—	(26.9)
Purchase of subsidiary shares from noncontrolling interest	—	—	(1.7)	—	(1.7)
Dividends to common stockholders	(606.0)	—	—	—	(606.0)
Issuance of long-term debt	493.6	10.0	11.3	(10.0)	504.9
Principal repayments of long-term debt	—	(55.9)	(32.2)	55.9	(32.2)
Net proceeds from short-term borrowings	—	—	57.5	—	57.5
Dividends and capital paid to parent	—	(494.2)	(2,118.7)	2,612.9	—
Investment contract deposits	—	—	9,200.0	—	9,200.0
Investment contract withdrawals	—	—	(7,747.7)	—	(7,747.7)
Net increase in banking operation deposits	—	—	623.4	—	623.4
Other	—	—	5.7	—	5.7
Net cash provided by (used in) financing activities	(355.7)	(540.1)	(29.3)	2,658.8	1,733.7
Net increase (decrease) in cash and cash equivalents	60.0	(50.6)	(440.6)	(30.4)	(461.6)
Cash and cash equivalents at beginning of period	334.9	649.0	3,096.8	(1,103.2)	2,977.5
Cash and cash equivalents at end of period	\$ 394.9	\$ 598.4	\$ 2,656.2	\$ (1,133.6)	\$ 2,515.9

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Cash Flows
For the year ended December 31, 2018

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Operating activities					
Net cash provided by (used in) operating activities	\$ (132.4)	\$ 696.3	\$ 5,030.9	\$ (438.3)	\$ 5,156.5
Investing activities					
Fixed maturities available-for-sale and equity securities with intent to hold:					
Purchases	(210.9)	—	(13,698.9)	—	(13,909.8)
Sales	—	—	3,813.1	—	3,813.1
Maturities	2.3	—	6,215.3	—	6,217.6
Mortgage loans acquired or originated	—	—	(3,447.5)	—	(3,447.5)
Mortgage loans sold or repaid	—	—	2,228.4	—	2,228.4
Real estate acquired	—	—	(88.1)	—	(88.1)
Real estate sold	—	—	63.5	—	63.5
Net purchases of property and equipment	(0.1)	—	(92.2)	—	(92.3)
Purchase of business or interests in subsidiaries, net of cash acquired	—	—	(184.7)	—	(184.7)
Dividends and returns of capital received from unconsolidated entities	1,041.6	589.1	—	(1,630.7)	—
Net change in other investments	(2.2)	(166.2)	(413.9)	279.6	(302.7)
Net cash provided by (used in) investing activities	830.7	422.9	(5,605.0)	(1,351.1)	(5,702.5)
Financing activities					
Issuance of common stock	64.0	—	—	—	64.0
Acquisition of treasury stock	(671.6)	—	—	—	(671.6)
Payments for financing element derivatives	—	—	(65.9)	—	(65.9)
Purchase of subsidiary shares from noncontrolling interest	—	—	(31.1)	—	(31.1)
Dividends to common stockholders	(598.6)	—	—	—	(598.6)
Issuance of long-term debt	—	11.1	80.8	(11.1)	80.8
Principal repayments of long-term debt	—	(57.1)	(1.3)	57.1	(1.3)
Net proceeds from short-term borrowings	—	—	8.5	—	8.5
Dividends and capital paid to parent	—	(1,041.6)	(589.1)	1,630.7	—
Investment contract deposits	—	—	8,308.8	—	8,308.8
Investment contract withdrawals	—	—	(6,589.6)	—	(6,589.6)
Net increase in banking operation deposits	—	—	553.0	—	553.0
Other	—	—	(4.3)	—	(4.3)
Net cash provided by (used in) financing activities	(1,206.2)	(1,087.6)	1,669.8	1,676.7	1,052.7
Net increase (decrease) in cash and cash equivalents	(507.9)	31.6	1,095.7	(112.7)	506.7
Cash and cash equivalents at beginning of period	842.8	617.4	2,001.1	(990.5)	2,470.8
Cash and cash equivalents at end of period	\$ 334.9	\$ 649.0	\$ 3,096.8	\$ (1,103.2)	\$ 2,977.5

Principal Financial Group, Inc.
Notes to Consolidated Financial Statements – (continued)
December 31, 2019

21. Condensed Consolidating Financial Information – (continued)

Condensed Consolidating Statements of Cash Flows
For the year ended December 31, 2017

	Principal Financial Group, Inc. parent only	Principal Financial Services, Inc. only	Principal Life Insurance Company and other subsidiaries combined (1)	Eliminations	Principal Financial Group, Inc. consolidated
	<i>(in millions)</i>				
Operating activities					
Net cash provided by (used in) operating activities	\$ (443.2)	\$ (252.8)	\$ 4,483.6	\$ 400.4	\$ 4,188.0
Investing activities					
Fixed maturities available-for-sale and equity securities with intent to hold:					
Purchases	—	—	(13,371.6)	—	(13,371.6)
Sales	—	—	1,413.6	—	1,413.6
Maturities	—	—	8,743.2	—	8,743.2
Mortgage loans acquired or originated	—	—	(2,755.8)	—	(2,755.8)
Mortgage loans sold or repaid	—	—	1,872.0	—	1,872.0
Real estate acquired	—	—	(200.5)	—	(200.5)
Real estate sold	—	—	481.9	—	481.9
Net purchases of property and equipment	(0.1)	—	(164.7)	—	(164.8)
Dividends and returns of capital received from unconsolidated entities	1,002.5	691.2	—	(1,693.7)	—
Net change in other investments	(1.1)	7.5	(61.6)	(15.6)	(70.8)
Net cash provided by (used in) investing activities	1,001.3	698.7	(4,043.5)	(1,709.3)	(4,052.8)
Financing activities					
Issuance of common stock	162.5	—	—	—	162.5
Acquisition of treasury stock	(220.4)	—	—	—	(220.4)
Proceeds from financing element derivatives	—	—	0.1	—	0.1
Payments for financing element derivatives	—	—	(77.6)	—	(77.6)
Purchase of subsidiary shares from noncontrolling interest	—	—	(13.3)	—	(13.3)
Dividends to common stockholders	(540.0)	—	—	—	(540.0)
Issuance of long-term debt	—	9.4	2.8	(9.4)	2.8
Principal repayments of long-term debt	—	(38.8)	(56.5)	38.8	(56.5)
Net repayments of short-term borrowings	—	—	(92.0)	76.5	(15.5)
Dividends and capital paid to parent	—	(1,002.5)	(691.2)	1,693.7	—
Investment contract deposits	—	—	10,154.4	—	10,154.4
Investment contract withdrawals	—	—	(9,914.6)	—	(9,914.6)
Net increase in banking operation deposits	—	—	136.6	—	136.6
Other	—	—	(2.5)	—	(2.5)
Net cash used in financing activities	(597.9)	(1,031.9)	(553.8)	1,799.6	(384.0)
Net decrease in cash and cash equivalents	(39.8)	(586.0)	(113.7)	490.7	(248.8)
Cash and cash equivalents at beginning of period	882.6	1,203.4	2,114.8	(1,481.2)	2,719.6
Cash and cash equivalents at end of period	<u>\$ 842.8</u>	<u>\$ 617.4</u>	<u>\$ 2,001.1</u>	<u>\$ (990.5)</u>	<u>\$ 2,470.8</u>

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

In order to ensure the information we must disclose in our filings with the SEC is recorded, processed, summarized and reported on a timely basis, we have adopted disclosure controls and procedures. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure information required to be disclosed by us in the reports we file with or submit to the SEC is accumulated and communicated to our management, including our Chief Executive Officer and our Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Our Chief Executive Officer, Daniel J. Houston, and our Chief Financial Officer, Deanna D. Strable-Soethout, have reviewed and evaluated our disclosure controls and procedures as of December 31, 2019, except as noted below, and have concluded our disclosure controls and procedures are effective.

Our assessment of the effectiveness of disclosure controls and procedures excludes the operations and related assets of the Acquired Business, which closed on July 1, 2019. For additional information regarding the acquisition, see Item 8. “Financial Statements and Supplementary Data, Notes to Consolidated Financial Statements, Note 2, Goodwill and Other Intangible Assets”. We are in process of evaluating internal control over financial reporting for the Acquired Business and, accordingly, have excluded its controls from our evaluation of disclosure controls and procedures. For the year ended December 31, 2019, the Acquired Business’s revenues related to operations represented 1% of our consolidated total revenues. As of December 31, 2019, the Acquired Business’s assets related to operations represented less than 1% of our consolidated total assets.

Management’s Report on Internal Control Over Financial Reporting

Management of Principal Financial Group, Inc. is responsible for establishing and maintaining adequate internal control over financial reporting. A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of management, including our Chief Executive Officer, Daniel J. Houston, and our Chief Financial Officer, Deanna D. Strable-Soethout, we conducted an evaluation of the effectiveness of our internal control over financial reporting, except as noted below, based on criteria established in the *Internal Control — Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 Framework). Based on our evaluation, management has concluded that Principal Financial Group, Inc.’s internal control over financial reporting was effective as of December 31, 2019.

As noted above, we are in the process of evaluating internal control over financial reporting for Acquired Business and, accordingly, have excluded Acquired Business from management’s report on internal control over financial reporting. See “Disclosure Controls and Procedures” above for additional information.

Ernst & Young LLP, the independent registered public accounting firm that audited our financial statements included in this annual report on Form 10-K, has issued its report on the effectiveness of our internal control over financial reporting. The report is included in Item 8. “Financial Statements and Supplementary Data.”

Changes in Internal Control Over Financial Reporting

Other than the acquisition of the Acquired Business discussed above, we had no change in our internal control over financial reporting during our last fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None

PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information called for by Item 10 pertaining to directors is set forth in Principal Financial Group, Inc.'s proxy statement relating to the 2020 annual stockholders meeting (the "Proxy Statement"), which will be filed with the SEC on or about April 6, 2020, under the captions, "Election of Directors," "Corporate Governance," and "Security Ownership of Certain Beneficial Owners and Management — Delinquent Section 16(a) Reports." Such information is incorporated herein by reference. The information called for by Item 10 pertaining to executive officers can be found in Part I of this Form 10-K under the caption, "Information about our Executive Officers." The Company has adopted a code of ethics that applies to our principal executive officer, principal financial officer and principal accounting officer. The code of ethics has been posted on our internet website, found at www.principal.com. We intend to satisfy disclosure requirements regarding amendments to, or waivers from, any provision of our code of ethics on our website.

Item 11. Executive Compensation

The information called for by Item 11 pertaining to executive compensation is set forth in the Proxy Statement under the caption, "Executive Compensation," and is incorporated herein by reference.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information called for by Item 12 pertaining to security ownership of certain beneficial owners and management is set forth in the Proxy Statement under the caption, "Security Ownership of Certain Beneficial Owners and Management," and is incorporated herein by reference.

Equity Compensation Plan Information

In general, we have three compensation plans under which our equity securities are authorized for issuance to employees or directors (not including our tax qualified pension plans): the Principal Financial Group, Inc. 2014 Stock Incentive Plan, the Principal Financial Group, Inc. Employee Stock Purchase Plan and the Principal Financial Group, Inc. 2014 Directors Stock Plan. We propose to submit for approval of stockholders at the 2020 annual meeting a new employee stock purchase plan and a new directors stock plan. The information called for by Item 12 pertaining to equity compensation is set forth in the Proxy Statement under the caption "Amendment to the Principal Financial Group, Inc. Employee Stock Purchase Plan – Equity Compensation Information," and is incorporated herein by reference.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information called for by Item 13 pertaining to certain relationships and related transactions is set forth in the Proxy Statement under the captions, "Corporate Governance — Director Independence," and "Corporate Governance — Certain Relationships and Related Transactions," and is incorporated herein by reference.

Item 14. Principal Accounting Fees and Services

The information called for by Item 14 pertaining to principal accounting fees and services is set forth in the Proxy Statement under the caption, "Ratification of Appointment of Independent Registered Public Accountants," and is incorporated herein by reference.

PART IV

Item 15. Exhibits and Financial Statement Schedules

- a. Documents filed as part of this report.
 1. Financial Statements (see Item 8. Financial Statements and Supplementary Data)
Report of Independent Registered Public Accounting Firm on Internal Control over Financial Reporting
Report of Independent Registered Public Accounting Firm
Audited Consolidated Financial Statements
Consolidated Statements of Financial Position
Consolidated Statements of Operations
Consolidated Statements of Comprehensive Income
Consolidated Statements of Stockholders' Equity
Consolidated Statements of Cash Flows
Notes to Consolidated Financial Statements
 2. Schedule I — Summary of Investments — Other Than Investments in Related Parties
Schedule II — Condensed Financial Information of Registrant (Parent Only)
Schedule III — Supplementary Insurance Information
Schedule IV — Reinsurance

All other schedules for which provision is made in the applicable accounting regulation of the Securities and Exchange Commission are not required under the related instructions or are inapplicable and therefore have been omitted.

3. Exhibits

**Index of Exhibits
(Item 15 (a) 3.)**

Exhibit Number	Description	Incorporated by reference herein	
		Form	File Date
2.1	Sale and Purchase Promise Agreement, dated October 5, 2012, among Principal Financial Services, Inc., Empresas Penta S.A. and Inversiones Banpenta Limitada	8-K	November 13, 2012
2.2	Purchase Agreement, dated as of April 9, 2019, by and between Wells Fargo Bank, N.A., Principal Financial Services, Inc. and (for certain limited purposes) Wells Fargo & Company	10-Q	May 2, 2019
3.1	Amended and Restated Certificate of Incorporation of Principal Financial Group, Inc.	8-K	June 17, 2005
3.2	Amended and Restated By-Laws of Principal Financial Group, Inc.	8-K	March 2, 2018
4.1	Form of Certificate for the Common Stock of Principal Financial Group, Inc., par value \$0.01 per share	S-1/A	August 2, 2001
4.2	Senior Indenture, dated as of October 11, 2006, between Principal Financial Group, Inc. and The Bank of New York, as Trustee	8-K	October 17, 2006
4.2.1	First Supplemental Indenture, dated as of October 16, 2006, among Principal Financial Group, Inc., Principal Financial Services, Inc. and The Bank of New York, as Trustee	8-K	October 17, 2006
4.2.2	6.05% Senior Note (\$500,000,000) due October 15, 2036	8-K	October 17, 2006
4.2.3	6.05% Senior Note (\$100,000,000) due October 15, 2036	8-K	December 6, 2006
4.2.4	Guarantee from Principal Financial Services, Inc. with respect to the 6.05% Senior Notes due 2036	8-K	October 17, 2006
4.3	Senior Indenture, dated as of May 21, 2009, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York, as Trustee	8-K	May 21, 2009
4.3.1	Third Supplemental Indenture (including the form of 2022 Notes), dated as of September 10, 2012, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee	8-K	September 10, 2012
4.3.2	Fourth Supplemental Indenture (including the form of 2042 Notes), dated as of September 10, 2012, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee	8-K	September 10, 2012
4.3.3	Sixth Supplemental Indenture (including the form of 2023 Notes), dated as of November 16, 2012, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee	8-K	November 16, 2012
4.3.4	Seventh Supplemental Indenture (including the form of 2043 Notes), dated as of November 16, 2012, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee	8-K	November 16, 2012
4.3.5	Eighth Supplemental Indenture (including the form of 3.400% Senior Note due 2025), dated as of May 7, 2015, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee, relating to the 3.400% Senior Notes due 2025	8-K	May 7, 2015
4.3.6	Ninth Supplemental Indenture (including the form of 3.100% Senior Note due 2026), dated as of November 10, 2016, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee, relating to the 3.100% Senior Notes due 2026	8-K	November 10, 2016
4.3.7	Tenth Supplemental Indenture (including the form of 4.300% Senior Note due 2046), dated as of November 10, 2016, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee, relating to the 4.300% Senior Notes due 2046	8-K	November 10, 2016
4.3.8	Guarantee from Principal Financial Services, Inc. with respect to the 3.300% Senior Notes due 2022	8-K	September 10, 2012
4.3.9	Guarantee from Principal Financial Services, Inc. with respect to the 4.625% Senior Notes due 2042	8-K	September 10, 2012
4.3.10	Guarantee from Principal Financial Services, Inc. with respect to the 3.125% Senior Notes due 2023	8-K	November 16, 2012
4.3.11	Guarantee from Principal Financial Services, Inc. with respect to the 4.350% Senior Notes due 2043	8-K	November 16, 2012
4.3.12	Guarantee from Principal Financial Services, Inc. with respect to the 3.400% Senior Notes due 2025	8-K	May 7, 2015
4.3.13	Guarantee from Principal Financial Services, Inc. with respect to the 3.100% Senior Notes due 2026	8-K	November 10, 2016
4.3.14	Guarantee from Principal Financial Services, Inc. with respect to the 4.300% Senior Notes due 2046	8-K	November 10, 2016
4.3.15	Thirteenth Supplemental Indenture (including the form of 3.700% Senior Note due 2029), dated as of May 10, 2019, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee, relating to the 3.700% Senior Notes due 2029	8-K	May 10, 2019

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Exhibit Number	Description	Incorporated by reference herein	
		Form	File Date
4.3.16	Guarantee from Principal Financial Services, Inc. with respect to the 3.700% Senior Notes due 2029	8-K	May 10, 2019
4.4	Junior Subordinated Indenture, dated as of May 7, 2015, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee	8-K	May 7, 2015
4.4.1	First Supplemental Indenture (including the form of 4.700% Fixed-to-Floating Rate Junior Subordinated Note due 2055), dated as of May 7, 2015, among Principal Financial Group, Inc., as issuer, Principal Financial Services, Inc., as guarantor, and The Bank of New York Mellon Trust Company, as trustee, relating to the 4.700% Fixed-to-Floating Rate Junior Subordinated Notes due 2055	8-K	May 7, 2015
4.4.2	Guarantee from Principal Financial Services, Inc. with respect to the 4.700% Fixed-to-Floating Rate Junior Subordinated Notes due 2055	8-K	May 7, 2015
10.1	Principal Financial Group, Inc. Stock Incentive Plan	10-Q	August 6, 2003
10.1.1	Form of Restricted Stock Unit Award Agreement	8-K	March 7, 2005
10.1.2	Form of Stock Option Award Agreement	8-K	March 7, 2005
10.1.3	Principal Financial Group, Inc. 2005 Stock Incentive Plan	10-Q	August 3, 2005
10.1.4	Principal Financial Group, Inc. 2010 Stock Incentive Plan	DEF14A	April 6, 2010
10.1.5	Amended and Restated Principal Financial Group, Inc. 2010 Stock Incentive Plan	10-Q	May 2, 2012
10.1.6	Principal Financial Group, Inc. 2014 Stock Incentive Plan	DEF14Q	April 7, 2014
10.2	Principal Financial Group Long-Term Performance Plan	S-1	June 8, 2001
10.3	Resolution of Human Resources Committee of the Board of Directors of Principal Financial Group, Inc. amending the Principal Financial Group Long-Term Performance Plan as of October 31, 2002	10-K	March 5, 2003
10.4	Principal Financial Group Incentive Pay Plan (PrinPay), amended and restated effective January 1, 2003	10-Q	May 7, 2003
10.5	Principal Financial Group, Inc. Annual Incentive Plan	10-K	March 4, 2005
10.6	Revised Summary of Standard Compensatory Arrangement for Non-Employee Directors of the Principal Financial Group, Inc. Board of Directors	10-Q	November 5, 2008
10.6.1	Revised Summary of Standard Compensatory Arrangement for Non-Employee Directors, effective March 28, 2009	10-Q	May 6, 2009
10.6.2	Revised Summary of Standard Compensatory Arrangement for Non-Employee Directors of the Principal Financial Group, Inc., effective May 17, 2010	10-K	February 16, 2011
10.6.3	Revised Summary of Standard Compensatory Arrangement for Non-Employee Directors of the Principal Financial Group, Inc., effective January 1, 2012	10-K	February 15, 2012
10.6.4	Revised Summary of Standard Compensatory Arrangement for Non-Employee Directors of Principal Financial Group, Inc., effective January 1, 2015	10-K	February 11, 2015
10.6.5	Revised Summary of Standard Compensatory Arrangement for Non-Employee Directors of the Principal Financial Group, Inc., effective November 28, 2017	10-K	February 9, 2018
10.7	Principal Financial Group, Inc. Directors Stock Plan	S-1	June 8, 2001
10.7.1	Principal Financial Group, Inc. 2005 Directors Stock Plan	10-Q	August 3, 2005
10.7.2	Principal Financial Group, Inc. 2014 Directors Stock Plan	DEF14Q	April 7, 2014
10.8	Deferred Compensation Plan for Non-Employee Directors of Principal Financial Group, Inc.	10-K	March 2, 2006
10.9	Principal Select Savings Excess Plan, restated as of January 1, 2004	10-Q	May 5, 2004
10.9.1	Amendment No. 1 to Principal Select Savings Excess Plan	10-K	March 2, 2006
10.9.2	Principal Select Savings Excess Plan for Employees, amended and restated effective January 1, 2016	10-K	February 10, 2016
10.9.3	Principal Select Savings Excess Plan for Individual Field, amended and restated effective January 1, 2016	10-K	February 10, 2016
10.9.4	Nonqualified Deferred Compensation Plan for Select Investment Professions of Principal Financial Group, Inc. and Affiliates, effective January 1, 2016	10-K	February 10, 2016
10.10	Supplemental Executive Retirement Plan for Employees, restated as of January 1, 2003	10-Q	May 5, 2004
10.10.1	Amendment No. 1 to the Principal Supplemental Executive Retirement Plan for Employees	10-K	March 2, 2006

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Exhibit Number	Description	Incorporated by reference herein	
		Form	File Date
10.11	Form of Principal Financial Group, Inc. and Principal Life Insurance Company Change-of-Control Employment Agreement (Tier One Executives), dated as of February 28, 2006, by and among Principal Financial Group, Inc., Principal Financial Services, Inc., Principal Life Insurance Company and an Executive	10-Q	May 4, 2006
10.11.1	Form of Principal Financial Group, Inc. and Principal Life Insurance Company Change-of-Control Employment Agreement (Tier One Executives)	8-K	December 2, 2008
10.11.2	Form of Principal Financial Group, Inc. and Principal Life Insurance Company Change of Control Employment Agreement (Tier One Executives), effective December 31, 2010	10-K	February 16, 2011
10.12	Form of Principal Financial Group, Inc. Indemnification Agreement	8-K	December 2, 2008
10.12.1	Form of Principal Financial Group, Inc. Indemnification Agreement dated as of June 9, 2016.	10-Q	August 3, 2016
10.13	Compensatory Arrangement, dated as of March 14, 2002, between Principal Life Insurance Company and James P. McCaughan	10-Q	May 10, 2002
10.14	The Principal Severance Plan for Senior Executives, restated effective March 1, 2009	10-Q	May 6, 2009
4.5	Description of the Registrant's Securities Registered under Section 12 of the Securities Exchange Act of 1934		
10.15	The Principal Financial Group Nonqualified Defined Benefit Plan for Employees		
21	Principal Financial Group, Inc. Member Companies as of December 31, 2019		
23	Consent of Independent Registered Public Accounting Firm		
31.1	Certification of Daniel J. Houston		
31.2	Certification of Deanna D. Strable-Soethout		
32.1	Certification Pursuant to Section 1350 of Chapter 63 of Title 18 of the United States Code — Daniel J. Houston		
32.2	Certification Pursuant to Section 1350 of Chapter 63 of Title 18 of the United States Code — Deanna D. Strable-Soethout		
101	The following materials from Principal Financial Group, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2019, formatted in iXBRL (Inline eXtensible Business Reporting Language): (i) the Consolidated Statements of Financial Position, (ii) the Consolidated Statements of Operations, (iii) the Consolidated Statements of Comprehensive Income, (iv) the Consolidated Statements of Stockholders' Equity, (v) the Consolidated Statements of Cash Flows, (vi) the Notes to Consolidated Financial Statements, (vii) Schedule I — Summary of Investments — Other Than Investments in Related Parties, (viii) Schedule II — Condensed Financial Information of Registrant (Parent Only), (ix) Schedule III — Supplementary Insurance Information and (x) Schedule IV — Reinsurance		
104	The cover page from Principal Financial Group, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2019 formatted in iXBRL and contained in Exhibit 101.		

Paper copies of exhibits will be provided to shareholders upon reasonable request and upon payment of reasonable copying and mailing expenses.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

PRINCIPAL FINANCIAL GROUP, INC.

Dated: February 14, 2020

By /s/ Deanna D. Strable-Soethout
Deanna D. Strable-Soethout
Executive Vice President and Chief Financial Officer

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

Dated: February 14, 2020

By /s/ DANIEL J. HOUSTON
Daniel J. Houston
Chairman, President, Chief Executive Officer and Director

By /s/ SANDRA L. HELTON
Sandra L. Helton
Director

By /s/ DEANNA D. STRABLE-SOETHOUT
Deanna D. Strable-Soethout
Executive Vice President and Chief
Financial Officer (Principal Financial Officer and
Principal Accounting Officer)

By /s/ ROGER C. HOCHSCHILD
Roger C. Hochschild
Director

By /s/ JONATHAN S. AUERBACH
Jonathan S. Auerbach
Director

By /s/ SCOTT M. MILLS
Scott M. Mills
Director

By /s/ BETSY J. BERNARD
Betsy J. Bernard
Director

By /s/ DIANE C. NORDIN
Diane C. Nordin
Director

By /s/ JOCELYN CARTER-MILLER
Jocelyn Carter-Miller
Director

By /s/ BLAIR C. PICKERELL
Blair C. Pickerell
Director

By /s/ MICHAEL T. DAN
Michael T. Dan
Director

By /s/ ELIZABETH E. TALLETT
Elizabeth E. Tallett
Director

By /s/ C. DANIEL GELATT, JR.
C. Daniel Gelatt, Jr.
Director

Schedule I - Summary of Investments - Other Than Investments in Related Parties
December 31, 2019

Type of Investment	Cost	Fair value	Amount as shown in the consolidated statement of financial position
		<i>(in millions)</i>	
Fixed maturities, available-for-sale:			
U.S. Treasury securities and obligations of U.S. government corporations and agencies	\$ 1,627.0	\$ 1,724.2	\$ 1,724.2
States, municipalities and political subdivisions	6,857.1	7,490.0	7,490.0
Foreign governments	852.3	996.2	996.2
Public utilities	4,543.2	4,191.0	4,191.0
Redeemable preferred stock	33.8	34.6	34.6
All other corporate bonds	32,416.1	36,421.8	36,421.8
Residential mortgage-backed securities	2,913.9	2,982.4	2,982.4
Commercial mortgage-backed securities	4,746.6	4,850.2	4,850.2
Collateralized debt obligations	3,226.7	3,215.3	3,215.3
Other debt obligations	8,085.8	8,200.5	8,200.5
Total fixed maturities, available-for-sale	65,302.5	70,106.2	70,106.2
Fixed maturities, trading	675.9	675.9	675.9
Equity securities:			
Banks, trust and insurance companies	456.5	456.5	456.5
Public utilities	7.0	7.0	7.0
Industrial, miscellaneous and all other	785.6	785.6	785.6
Other corporate	480.7	480.7	480.7
Non-redeemable preferred stock	149.6	149.6	149.6
Total equity securities	1,879.4	1,879.4	1,879.4
Mortgage loans	16,486.9	XXXX	16,486.9
Real estate, net:			
Real estate acquired in satisfaction of debt	4.1	XXXX	4.1
Other real estate	1,710.7	XXXX	1,710.7
Policy loans	798.0	XXXX	798.0
Other investments	4,690.2	XXXX	4,690.2
Total investments	\$ 91,547.7	XXXX	\$ 96,351.4

Schedule II - Condensed Financial Information of Registrant (Parent Only)
Statements of Financial Position

	December 31,	
	2019	2018
<i>(in millions)</i>		
Assets		
Fixed maturities, available-for-sale	\$ 265.8	\$ 211.5
Fixed maturities, trading	268.2	308.9
Other investments	10.4	10.7
Cash and cash equivalents	394.9	334.9
Income taxes receivable	11.1	16.9
Deferred income taxes	344.4	331.0
Amounts receivable from subsidiaries	3.8	5.2
Other assets	25.5	23.3
Investment in unconsolidated entities	17,539.6	13,862.4
Total assets	\$ 18,863.7	\$ 15,104.8
Liabilities		
Long-term debt	\$ 3,625.5	\$ 3,129.8
Accrued investment payable	25.4	23.1
Pension liability	590.6	557.9
Other liabilities	4.2	4.0
Total liabilities	4,245.7	3,714.8
Stockholders' equity		
Common stock, par value \$.01 per share - 2,500 million shares authorized, 479.3 million and 476.7 million shares issued, and 276.6 million and 279.5 million shares outstanding in 2019 and 2018	4.8	4.8
Additional paid-in capital	10,182.6	10,060.7
Retained earnings	11,074.3	10,290.2
Accumulated other comprehensive income (loss)	1,037.9	(1,565.1)
Treasury stock, at cost (202.7 million and 197.2 million shares in 2019 and 2018)	(7,681.6)	(7,400.6)
Total stockholders' equity attributable to Principal Financial Group, Inc.	14,618.0	11,390.0
Total liabilities and stockholders' equity	\$ 18,863.7	\$ 15,104.8

See accompanying notes.

Statements of Operations

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Revenues			
Fees and other revenues	\$ —	\$ —	\$ 7.8
Net investment income	19.4	25.8	9.7
Net realized capital gains (losses)	12.3	(8.2)	(0.6)
Total revenues	31.7	17.6	16.9
Expenses			
Other operating costs and expenses	210.9	191.9	238.1
Total expenses	210.9	191.9	238.1
Loss before income taxes	(179.2)	(174.3)	(221.2)
Income taxes (benefits)	(44.2)	(62.5)	63.1
Equity in the net income of subsidiaries	1,529.2	1,658.3	2,594.7
Net income attributable to Principal Financial Group, Inc.	\$ 1,394.2	\$ 1,546.5	\$ 2,310.4

See accompanying notes.

Statements of Cash Flows

	For the year ended December 31,		
	2019	2018	2017
	<i>(in millions)</i>		
Operating activities			
Net income	\$ 1,394.2	\$ 1,546.5	\$ 2,310.4
Adjustments to reconcile net income to net cash provided by (used in) operating activities:			
Net realized capital (gains) losses	(12.3)	8.2	0.6
Stock-based compensation	1.3	2.9	3.0
Equity in the net income of subsidiaries	(1,529.2)	(1,658.3)	(2,594.7)
Changes in:			
Net cash flows for trading securities and equity securities with operating intent	48.7	32.4	(352.6)
Current and deferred income taxes (benefits)	(31.0)	15.7	163.8
Other	135.4	(79.8)	26.3
Net cash provided by (used in) operating activities	7.1	(132.4)	(443.2)
Investing activities			
Fixed maturities available-for-sale and equity securities with intent to hold:			
Purchases	(251.5)	(210.9)	—
Maturities	200.0	2.3	—
Net purchases of property and equipment	(0.1)	(0.1)	(0.1)
Net change in other investments	(34.0)	(2.2)	(1.1)
Dividends and returns of capital received from unconsolidated entities	494.2	1,041.6	1,002.5
Net cash provided by investing activities	408.6	830.7	1,001.3
Financing activities			
Issuance of common stock	37.7	64.0	162.5
Acquisition of treasury stock	(281.0)	(671.6)	(220.4)
Dividends to common stockholders	(606.0)	(598.6)	(540.0)
Issuance of long-term debt	493.6	—	—
Net cash used in financing activities	(355.7)	(1,206.2)	(597.9)
Net increase (decrease) in cash and cash equivalents	60.0	(507.9)	(39.8)
Cash and cash equivalents at beginning of year	334.9	842.8	882.6
Cash and cash equivalents at end of year	<u>\$ 394.9</u>	<u>\$ 334.9</u>	<u>\$ 842.8</u>

See accompanying notes.

(1) Basis of Presentation

The accompanying condensed financial information should be read in conjunction with the consolidated financial statements and notes thereto of Principal Financial Group, Inc.

In the parent company only financial statements, our investment in unconsolidated entities is stated at cost plus equity in undistributed earnings of subsidiaries.

Principal Financial Group, Inc. sponsors nonqualified benefit plans for select employees and agents and is responsible for the obligations of these plans. Nonqualified plan assets are held in Rabbi trusts for the benefit of all nonqualified plan participants. The invested assets and benefit plan liabilities reported in the statements of financial position exclude amounts held in these trusts. The Rabbi trusts had \$731.9 million and \$671.7 million of plan assets and \$593.7 million and \$542.4 million of benefit plan liabilities as of December 31, 2019 and 2018, respectively.

(2) Dividends and Returns of Capital Received from (Contributions to) Unconsolidated Entities

The parent company received cash dividends and returns of capital totaling \$494.2 million, \$1,041.6 million and \$1,002.5 million from subsidiaries in 2019, 2018 and 2017, respectively.

Schedule III - Supplementary Insurance Information
As of December 31, 2019 and 2018 and for each of the years ended December 31, 2019, 2018 and 2017

Segment	Deferred acquisition costs	Future policy benefits and claims	Contractholder and other policyholder funds
	<i>(in millions)</i>		
2019:			
Retirement and Income Solutions	\$ 833.9	\$ 25,305.1	\$ 33,814.4
Principal Global Investors	—	—	—
Principal International	11.3	4,537.1	1,145.0
U.S. Insurance Solutions	2,676.1	10,823.5	7,720.0
Corporate	—	172.5	(352.5)
Total	<u>\$ 3,521.3</u>	<u>\$ 40,838.2</u>	<u>\$ 42,326.9</u>
2018:			
Retirement and Income Solutions	\$ 988.3	\$ 21,217.9	\$ 32,295.1
Principal Global Investors	—	—	—
Principal International	13.1	4,317.6	1,183.1
U.S. Insurance Solutions	2,692.1	9,950.3	7,458.4
Corporate	—	179.0	(348.5)
Total	<u>\$ 3,693.5</u>	<u>\$ 35,664.8</u>	<u>\$ 40,588.1</u>

Schedule III - Supplementary Insurance Information - (continued)
As of December 31, 2019 and 2018 and for each of the years ended December 31, 2019, 2018 and 2017

Segment	Premiums and other considerations	Net investment income (1)	Benefits, claims and settlement expenses	Amortization of deferred acquisition costs	Other operating expenses (1)
<i>(in millions)</i>					
2019:					
Retirement and Income Solutions	\$ 4,862.7	\$ 2,420.4	\$ 6,527.8	\$ 87.8	\$ 1,403.5
Principal Global Investors	—	10.1	—	—	1,028.5
Principal International	393.3	575.9	728.3	1.3	436.0
U.S. Insurance Solutions	2,610.6	854.5	2,639.2	257.9	946.5
Corporate	—	137.5	10.5	—	342.4
Total	<u>\$ 7,866.6</u>	<u>\$ 3,998.4</u>	<u>\$ 9,905.8</u>	<u>\$ 347.0</u>	<u>\$ 4,156.9</u>
2018:					
Retirement and Income Solutions	\$ 3,635.9	\$ 2,195.2	\$ 5,099.0	\$ 124.5	\$ 1,140.7
Principal Global Investors	—	4.2	—	—	1,168.0
Principal International	317.2	494.9	646.6	1.3	451.0
U.S. Insurance Solutions	2,456.5	815.1	2,444.6	127.7	925.4
Corporate	—	119.8	2.3	—	198.1
Total	<u>\$ 6,409.6</u>	<u>\$ 3,629.2</u>	<u>\$ 8,192.5</u>	<u>\$ 253.5</u>	<u>\$ 3,883.2</u>
2017:					
Retirement and Income Solutions	\$ 3,671.1	\$ 2,058.3	\$ 4,972.6	\$ 35.8	\$ 1,108.5
Principal Global Investors	—	13.4	—	—	963.1
Principal International	218.0	510.6	507.1	22.4	388.1
U.S. Insurance Solutions	2,328.3	785.9	2,345.3	176.4	850.5
Corporate	—	91.1	(2.4)	—	349.0
Total	<u>\$ 6,217.4</u>	<u>\$ 3,459.3</u>	<u>\$ 7,822.6</u>	<u>\$ 234.6</u>	<u>\$ 3,659.2</u>

(1) Allocations of net investment income and certain operating expenses are based on a number of assumptions and estimates. Reported operating results would change by segment if different methods were applied.

Effective January 1, 2019, we made changes to the allocation of certain compensation and other expenses and net investment income among the reportable segments. These allocation changes were made as a result of a global financial process improvement project. The expense allocation changes simplify the allocation processes, increase transparency and allow for more effective expense management across the enterprise. The net investment income allocation changes better align our internal capital allocation with enterprise capital targets. Segment results for prior periods were recast so they are reported on a comparable basis, with no impact to total company financial results.

Schedule IV - Reinsurance
As of December 31, 2019, 2018 and 2017 and for each of the years then ended

	Gross amount	Ceded to other companies	Assumed from other companies	Net amount	Percentage of amount assumed to net
<i>(\$ in millions)</i>					
2019:					
Life insurance in force	\$ 577,735.3	\$ 368,583.0	\$ 999.5	\$ 210,151.8	0.5 %
Premiums:					
Life insurance and annuities	\$ 6,424.8	\$ 407.5	\$ 1.6	\$ 6,018.9	— %
Accident and health insurance	2,003.3	155.6	—	1,847.7	— %
Total	<u>\$ 8,428.1</u>	<u>\$ 563.1</u>	<u>\$ 1.6</u>	<u>\$ 7,866.6</u>	— %
2018:					
Life insurance in force	\$ 530,828.6	\$ 324,691.3	\$ 1,028.6	\$ 207,165.9	0.5 %
Premiums:					
Life insurance and annuities	\$ 5,055.8	\$ 359.9	\$ 1.7	\$ 4,697.6	— %
Accident and health insurance	1,872.5	160.5	—	1,712.0	— %
Total	<u>\$ 6,928.3</u>	<u>\$ 520.4</u>	<u>\$ 1.7</u>	<u>\$ 6,409.6</u>	— %
2017:					
Life insurance in force	\$ 486,887.5	\$ 287,538.8	\$ 1,059.5	\$ 200,408.2	0.5 %
Premiums:					
Life insurance and annuities	\$ 4,945.7	\$ 320.7	\$ 1.9	\$ 4,626.9	— %
Accident and health insurance	1,753.6	163.1	—	1,590.5	— %
Total	<u>\$ 6,699.3</u>	<u>\$ 483.8</u>	<u>\$ 1.9</u>	<u>\$ 6,217.4</u>	— %

**DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED
UNDER SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934**

Principal Financial Group, Inc. ("we," "our" or "us") has one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended: our common stock, par value \$0.01 per share.

Description of Common Stock

The following description of our common stock is a summary and does not purport to be complete. It is our Amended and Restated Certificate of Incorporation ("certificate of incorporation"), our Amended and Restated By-Laws ("by-laws") and the Delaware General Corporation Law, and not this summary, which define the rights of holders of our common stock. You should read our certificate of incorporation and by-laws and the provisions of the Delaware General Corporation Law for a full description of the terms of our common stock. Our certificate of incorporation and by-laws are filed as exhibits to the Annual Report on Form 10-K of which this exhibit is a part and incorporated by reference herein.

Authorized Shares

Our authorized capital stock consists of 2.5 billion shares of common stock and 500 million shares of preferred stock. As of December 31, 2019, we had 276.6 million outstanding shares of common stock.

Dividend Rights

Holders of common stock are entitled to receive such dividends as may from time to time be declared by our board of directors out of funds legally available for the payment of such dividends.

Voting Rights

Holders of common stock are entitled to one vote per share on all matters on which the holders of common stock are entitled to vote and do not have any cumulative voting rights.

Liquidation or Similar Rights

In the event of a liquidation, dissolution or winding up of Principal Financial Group, Inc., holders of common stock are entitled to share equally and ratably in the assets of Principal Financial Group, Inc., if any, remaining after the payment of all liabilities of Principal Financial Group, Inc. and the liquidation preference of any outstanding class or series of preferred stock.

Other Rights and Preferences

Holders of common stock have no preemptive, conversion, redemption or sinking fund rights. The rights and privileges of holders of common stock are subject to the rights of holders of any series of preferred stock that we may issue in the future.

Listing

Our common stock is listed on the New York Stock Exchange under the symbol "PFG".

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Computershare Investor Services, LLC.

Change of Control Related Provisions in Our Certificate of Incorporation and By-Laws, and Delaware Law

A number of provisions of our certificate of incorporation and by-laws deal with matters of corporate governance and rights of stockholders. The following discussion is a general summary of selected provisions of our certificate of incorporation and by-laws and regulatory provisions that might be deemed to have a potential antitakeover effect. These provisions may have the effect of discouraging a future takeover attempt which is not approved by our board of directors but which individual stockholders may

deem to be in their best interests or in which stockholders may receive a substantial premium for their shares over then current market prices. As a result, stockholders who might desire to participate in such a transaction may not have an opportunity to do so. Such provisions will also render the removal of the incumbent board of directors or management more difficult. Some provisions of the Delaware General Corporation Law and Iowa and other state insurance laws may also have an antitakeover effect. The following description of selected provisions of our certificate of incorporation and by-laws and selected provisions of the Delaware General Corporation Law and Iowa and other state insurance laws are necessarily general and reference should be made in each case to our certificate of incorporation and by-laws, which are filed as exhibits to the Annual Report on Form 10-K of which this exhibit is a part and incorporated by reference herein, and to the provisions of those laws.

Unissued Shares of Capital Stock

Common Stock. As of December 31, 2019, we had 276.6 million outstanding shares of common stock. The remaining shares of authorized and unissued common stock are available for future issuance without additional stockholder approval. While the additional shares are not designed to deter or prevent a change of control, under some circumstances we could use the additional shares to create voting impediments or to frustrate persons seeking to effect a takeover or otherwise gain control by, for example, issuing those shares in private placements to purchasers who might side with our board of directors in opposing a hostile takeover bid.

Preferred Stock. Our board of directors has the authority to issue preferred stock in one or more series and to fix the number of shares constituting any such series and the preferences, limitations and relative rights, including dividend rights, dividend rate, voting rights, terms of redemption, redemption price or prices, conversion rights and liquidation preferences of the shares constituting any series, without any further vote or action by our stockholders. The existence of authorized but unissued preferred stock could reduce our attractiveness as a target for an unsolicited takeover bid since we could, for example, issue shares of preferred stock to parties who might oppose such a takeover bid or shares that contain terms the potential acquiror may find unattractive. This may have the effect of delaying or preventing a change in control, may discourage bids for the common stock at a premium over the market price of the common stock, and may adversely affect the market price of, and the voting and other rights of the holders of, common stock.

Classified Board of Directors and Removal of Directors. Our certificate of incorporation provides that the directors shall be divided into three classes, as nearly equal in number as possible, with the term of office of each class to be three years. The classes serve staggered terms, such that the term of one class of directors expires each year. Any effort to obtain control of our board of directors by causing the election of a majority of the board of directors may require more time than would be required without a staggered election structure. Our certificate of incorporation also provides that directors may be removed only for cause at a meeting of stockholders by a vote of a majority of the shares then entitled to vote. This provision may have the effect of slowing or impeding a change in membership of our board of directors that would effect a change of control.

Restriction on Maximum Number of Directors and Filling of Vacancies on our Board of Directors. Our by-laws provide that the number of directors shall be fixed and increased or decreased from time to time by resolution of the board of directors, but the board of directors shall at no time consist of fewer than three directors. Stockholders can only remove a director for cause by a vote of a majority of the shares entitled to vote, in which case the vacancy caused by such removal may be filled at such meeting by the stockholders entitled to vote for the election of the director so removed. Any vacancy on the board of directors, including a vacancy resulting from an increase in the number of directors or resulting from a removal for cause where the stockholders have not filled the vacancy, may be filled by a majority of the directors then in office, although less than a quorum. If the vacancy is not so filled, it shall be filled by the stockholders at the next annual meeting of stockholders. The stockholders are not permitted to fill vacancies between annual meetings except where the vacancy resulted from a removal for cause. These provisions give incumbent directors significant authority that may have the effect of limiting the ability of stockholders to effect a change in management.

Advance Notice Requirements for Nomination of Directors and Presentation of New Business at Meetings of Stockholders; Action by Written Consent. Our by-laws provide for advance notice requirements for stockholder proposals and nominations for director. In addition, under the provisions of both our certificate of incorporation and by-laws, action may not be taken by written consent of stockholders; rather, any action taken by the stockholders must be effected at a duly called meeting. The Chairman of the Board, chief executive officer, or, under some circumstances, the president or any vice president, and the board of directors may call a special meeting. These provisions make it more procedurally difficult for a stockholder to place a proposal or nomination on the meeting agenda or to take action without a meeting, and therefore may reduce the likelihood that a stockholder will seek to take independent action to replace directors or seek a stockholder vote with respect to other matters that are not supported by management.

Limitations on Director Liability

Our certificate of incorporation contains a provision that is designed to limit our directors' liability. Specifically, directors will not be held liable to Principal Financial Group, Inc. for monetary damages for breach of their fiduciary duty as a director, except to the extent that this limitation on or exemption from liability is not permitted by the Delaware General Corporation Law and any amendments to that law.

The principal effect of the limitation on liability provision is that a stockholder is unable to prosecute an action for monetary damages against a director of Principal Financial Group, Inc. unless the stockholder can demonstrate a basis for liability for which indemnification is not available under the Delaware General Corporation Law. This provision, however, does not eliminate or limit director liability arising in connection with causes of action brought under the federal securities laws. Our certificate of incorporation does not eliminate our directors' duty of care. The inclusion of this provision in our certificate of incorporation may, however, discourage or deter stockholders or management from bringing a lawsuit against directors for a breach of their fiduciary duties, even though such an action, if successful, might otherwise have benefited Principal Financial Group, Inc. and our stockholders. This provision should not affect the availability of equitable remedies such as injunction or rescission based upon a director's breach of the duty of care.

Our by-laws also provide that we will indemnify our directors and officers. We are required to indemnify our directors and officers for all judgments, fines, settlements, legal fees and other expenses incurred in connection with pending, threatened or completed legal proceedings because of the director's or officer's position with Principal Financial Group, Inc. or another entity that the director or officer serves at our request, subject to various conditions, and to advance funds to our directors and officers to enable them to defend against such proceedings. To receive indemnification, the director or officer must have been successful in the legal proceeding or have acted in good faith and in what was reasonably believed to be a lawful manner in the best interest of Principal Financial Group, Inc.

Supermajority Voting Requirement for Amendment of Certain Provisions of our Certificate of Incorporation and By-Laws. The provisions of our certificate of incorporation governing, among other things the classified board, the director's discretion in determining what he or she reasonably believes to be in the best interests of Principal Financial Group, Inc., the liability of directors and the elimination of stockholder actions by written consent may not be amended, altered or repealed unless the amendment is approved by the vote of holders of three-fourths of the shares then entitled to vote at an election of directors. This requirement exceeds the majority vote of the outstanding stock that would otherwise be required by the Delaware General Corporation Law for the repeal or amendment of such provisions of the certificate of incorporation. Our by-laws may be amended by the board of directors or by the vote of holders of three-fourths of the shares then entitled to vote. These provisions make it more difficult for any person to remove or amend any provisions that have an antitakeover effect.

Business Combination Statute. In addition, as a Delaware corporation, we are subject to Section 203 of the Delaware General Corporation Law, unless we elect in our certificate of incorporation not to be governed by the provisions of Section 203. We have not made that election. Section 203 can affect the ability of an "interested stockholder" of Principal Financial Group, Inc. to engage in business combinations, such as mergers, consolidations or acquisitions of additional shares of Principal Financial Group, Inc., for a period of three years following the time that the stockholder becomes an "interested stockholder." An "interested stockholder" is defined to include persons owning directly or indirectly 15% or more of the outstanding voting stock of a corporation. The provisions of Section 203 are not applicable in some circumstances, including those in which (a) the business combination or transaction which results in the stockholder becoming an "interested stockholder" is approved by the corporation's board of directors prior to the time the stockholder becomes an "interested stockholder" or (b) the "interested stockholder," upon consummation of such transaction, owns at least 85% of the voting stock of the corporation outstanding prior to such transaction.

Limitations on Acquisitions of Securities

State insurance laws and other related state laws could be a significant deterrent to any person interested in acquiring control of Principal Financial Group, Inc. The insurance holding company and other insurance laws of many states regulate changes of control of insurance holding companies, such as Principal Financial Group, Inc. A change of control is generally presumed upon acquisitions of 10% or more of voting securities. The Iowa and Arizona insurance holding company laws and other Delaware, Vermont and California laws and regulations, which are applicable to us, require filings in connection with proposed acquisitions of control of domestic insurance companies and other regulated entities. These insurance holding company laws and other laws and regulations prohibit a person from acquiring direct or indirect control of an insurer or other regulated entity incorporated in the relevant jurisdiction without prior regulatory approval.

**THE PRINCIPAL FINANCIAL GROUP
NONQUALIFIED DEFINED BENEFIT PLAN
FOR EMPLOYEES**

(Amended and Restated Effective January 1, 2019)

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INTRODUCTION

Principal Life Insurance Company ("Principal Life") previously established and maintained **THE PRINCIPAL FINANCIAL GROUP NONQUALIFIED DEFINED BENEFIT PLAN FOR EMPLOYEES** to provide select eligible employees with additional benefits, including what they would have received under the Associated Plan but for the limits imposed on the compensation that can be taken into account under such plan (Code § 401(a)(17)) and the limit imposed on the benefits accrued and payable under such plan (Code § 415(b)).

Principal Life established this Plan on January 1, 1982. The Plan was amended from time to time and was last restated on June 1, 2014. Effective January 1, 2011, the Field Managers were moved to this Plan from The Principal Supplemental Executive Retirement Plan for Individual Field. This Plan covers Employees, including Field Managers. Benefits and liabilities accrued under The Principal Supplemental Executive Retirement Plan for Individual Field before January 1, 2011, in regard to the Field Managers, were transferred into this Plan as of January 1, 2011.

Effective November 24, 2014 Principal Life transferred sponsorship of the Plan to Principal Financial Group, Inc. ("Company"), and with the restated Plan, the Company assumed sponsorship and adopted the Plan as of November 24, 2014.

The Plan covers common-law employees and is designed and intended to be a "top-hat" plan – that is, an unfunded plan maintained primarily for the purpose of providing deferred compensation for a select group of management or highly compensated employees within the meaning of ERISA §§ 201(2), 301(a)(3) and 401(a)(1), and therefore is exempt from Parts 2, 3 and 4 of Title I of ERISA. The Plan is intended to be a nonqualified plan for purposes of Code § 401. The Plan also is intended to be a nonqualified deferred compensation plan that meets the requirements of paragraphs (2), (3) and (4) of Code § 409A(a), and the terms and provisions of the Plan should be interpreted and applied in a manner consistent with such requirements, including final Treasury Regulations and other guidance issued under Code § 409A.

This amendment and restatement is effective January 1, 2019 and replaces the prior Plan document.

ARTICLE I

DEFINITIONS

SECTION 1.01 — FORMAT.

Words and phrases defined in the DEFINITIONS SECTION of this Article will have the defined meaning when used in this Plan, unless the context clearly indicates otherwise. These words and phrases will have an initial capital letter to aid in identifying them as defined terms.

Words and phrases with an initial capital letter that are not defined in the DEFINITIONS SECTION of this Article will have the meaning assigned to such word or phrase under the Associated Plan, unless the context clearly indicates otherwise.

SECTION 1.02 — DEFINITIONS.

Accrued Traditional Benefit means the single life annuity that would be payable under the Associated Plan to the Participant using the formula described in the TRADITIONAL BENEFIT SECTION of Article IV of the Associated Plan starting as of his Normal Retirement Date (or as of the last day of the month following his Separation from Service if that occurs after his Normal Retirement Date).

Active Participant means an Employee in the Eligible Group who has enrolled in the Plan.

Actuarial Equivalent will have the meaning assigned under the Associated Plan with the following modification:

Cash Balance Account. In determining a lump-sum payment, such payment will be in the amount equal to the greater of:

- (A) The balance of the Cash Balance Account as of the Benefit Commencement Date; or
- (B) The Actuarial Equivalent present value as of the Benefit Commencement Date of the Participant's Cash Balance Accrued Benefit based on the Applicable Interest Rate, the Applicable Mortality Table, and the Cost of Living Adjustment Assumption, if applicable.

Administrator means Principal Life Insurance Company. The Administrator has authority to control and manage the operation and administration of the Plan and make all decisions and determinations incident thereto.

Aggregated Plan means any other deferred compensation plan maintained by the Company or a Controlled Group Member that is subject to Code § 409A and that is aggregated with this Plan under Treasury Regulation § 1.409A-1(c)(2).

Associated Plan means The Principal Pension Plan.

Beneficiary means the person or persons designated as such pursuant to the BENEFICIARIES SECTION of Article X.

Benefit Commencement Date means the first day of the period for which an amount is payable as an annuity to the Participant or, if the Participant has elected to have his Supplemental Benefit paid in the form of a lump-sum payment (or if the Supplemental Benefit is automatically paid in the form of a lump-sum payment under the terms of the Plan), the date on which the lump-sum payment is paid to the Participant.

Board means the Board of Directors of Principal Financial Group, Inc.

Cash Balance Account means the Participant's Cash Balance Account under the Associated Plan.

Cash Balance Benefit Supplement means the Supplemental Benefit payable to the Participant under the conditions specified in the CASH BALANCE BENEFIT ENTITLEMENT SECTION of Article III when expressed as a single lump-sum payable as of the date of determination.

Change of Control means the date of occurrence of any of the following, to the extent such occurrence constitutes a change of control event (as defined in Treasury Regulation § 1.409A-3(i)(5)(i)) with respect to Principal Financial Group:

- (a) a change in the ownership of Principal Financial Group occurs when any one person or a group of persons acquires stock in Principal Financial Group that is more than fifty percent (50%) of the total fair market value or total voting power of the stock of Principal Financial Group;
- (b) a change in the effective control of Principal Financial Group occurs when any one person or a group of persons acquires within a twelve (12)-month period, stock in Principal Financial Group possessing thirty percent (30%) or more of the total voting power of the stock of Principal Financial Group; or when a majority of the board of directors of Principal Financial Group is replaced during a twelve (12)-month period by directors whose appointment or election is not endorsed by a majority of the board of directors of Principal Financial Group; or
- (c) a change in the ownership of a substantial portion of the assets of Principal Financial Group occurs when any one person or group of persons acquires or has acquired during a twelve (12)-month period, assets from Principal Financial Group that have a total gross fair market value equal to or more than forty percent (40%) of the total gross fair market value of all of the assets of Principal Financial Group immediately prior to such acquisition.

Code means the Internal Revenue Code of 1986, as amended.

Company means Principal Financial Group, Inc. and any successors thereto.

Compensation means income as reported in the "Wages, Tips, and Other Compensation" box on Form W-2 attributable to services performed for the Company or a Participating Controlled Group Member. Compensation also includes any elective deferral (as defined in Code § 402(g)(3)) to the Principal Select Savings Plan

for Employees, and any amount which is deferred at the election of the Employee under the Principal Select Savings Excess Plan for Employees or any other nonqualified plan maintained by the Company or Participating Controlled Group Member, and any amount which is contributed or deferred at the election of the Employee which is not includible in the gross income of the Employee by reason of Code §§ 125, 132(f)(4) or 457.

Compensation will exclude the following:

- (a) expense reimbursements or other expense allowances, fringe benefits (cash and non-cash), moving expenses, deferred compensation (other than elective contributions as stated above), and welfare benefits (except short-term disability);
- (b) Annual Incentive Pay earned with respect to service while classified by the Company's or Participating Controlled Group Member's payroll system as "investment" or "industry variant";
- (c) any bonus or incentive pay paid by the Company or a Controlled Group Member, other than Annual Incentive Pay not otherwise excluded by (b) above or unless otherwise designated by the Administrator, including but not limited to:
 - (i) any amount paid under The Principal Long-Term Incentive Compensation Plan or other long-term incentive compensation plan or any stock incentive plan;
 - (ii) any sign-on bonus or stay bonus;
 - (iii) any bonus to share in the proceeds or any stay bonus paid to an Employee as a result of the acquisition of Old Northwest Agents Limited Partnership;
- (d) amounts earned as a result of an Employee's Separation from Service;
- (d) any lump-sum payout under the Principal Personal Time Off Policy;
- (f) any income from restricted stock or stock units or the exercise of statutory or non-statutory stock options under any plan maintained by the Company or Participating Controlled Group Member, except as specifically provided in a written agreement or other writing of the Company or Participating Controlled Group Member in effect prior to the start of the applicable Plan Year: and
- (g) any amounts paid after an Employee's Separation from Service, except for amounts earned for service attributable to the final payroll period that includes the date of the Employee's Separation from Service.

Controlled Group Member means any corporation or other business entity that is a member of the same controlled group as, or is under common control with, the Company as determined under Code § 414(b) or (c) (and for purposes of determining whether a Separation from Service has occurred, a standard of "at least 80 percent" will be used to identify a controlled group member under Code § 414(b) and (c) notwithstanding the default standard of "at least 50 percent" found in Treasury Regulation § 1.409A-1(h)(3)).

Disability or Disabled means that a Participant is unable to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment that can be expected to result in death or can be expected to last for a continuous period of not less than twelve (12) months.

Eligible Group means the group of Employees who are eligible to participate in the Plan, as determined under the ELIGIBLE GROUP SECTION of Article II.

Employee means any common-law employee of the Company or a Controlled Group Member (while it is a Controlled Group Member). For purposes of this Plan, the term Employee also includes Field Managers.

ERISA means the Employee Retirement Income Security Act of 1974, as amended.

Field Manager means a person who holds a current manager base contract with a DD 713 addendum, or any successor full-time contract, with the Company or a Participating Controlled Group Member or is designated as such by the Company or a Participating Controlled Group Member.

Grandfathered Choice Participant means a Participant who was offered a benefit formula election under the terms of the Associated Plan and who elected to continue to have his benefit under the Associated Plan calculated under the benefit formula in effect as of December 31, 2005 rather than under the new benefit formula that first became effective January 1, 2006. A Participant who would have been eligible for such election during 2005 but for the fact that he was on disability leave also will be considered a Grandfathered Choice Participant unless and until such time as he returns to active employment with the Company or Participating Controlled Group Member and files an election to participate in the new benefit formula under the Plan.

Normal Retirement Date means the last day of the month on or after the date the Participant reaches age sixty-five (65).

Participant means any Active Participant, or any current or former Employee who is not an Active Participant but who has benefits due him under the Plan.

Participating Controlled Group Member means any Controlled Group Member that has adopted the Plan and that employs one or more Participants, as listed in Attachment A (a Participating Controlled Group Member will automatically cease to participate if it ceases to be a Controlled Group Member).

Plan means The Principal Financial Group Nonqualified Defined Benefit Plan for Employees.

Plan Year means the calendar year.

Present Value for the pre-retirement period means the Cash Balance Interest Rate with no mortality as determined by the Associated Plan. Present Value for the post-retirement period means the Applicable Interest Rate and Applicable Mortality Table based on 417(e), as determined under the Associated Plan (COLA applied where applicable).

Principal Financial Group means Principal Financial Group, Inc., a Delaware corporation, together with all successors thereto.

Principal Life means Principal Life Insurance Company, the Administrator of the Plan.

Separation from Service means a "separation from service" within the meaning of Code § 409A. Generally, this means that the Participant's employer and the Participant reasonably anticipate that no further services will be performed for the Company or any Controlled Group Member after a certain date or that the level of services the Participant will perform after such date (whether as an Employee or independent contractor) will permanently decrease to twenty percent (20%) or less of the average level of bona fide services performed over the immediately preceding thirty-six (36) month period (or the full period of services if the Participant has been providing services for less than thirty-six (36) months).

In the case of a leave of absence by a Participant where there is a reasonable expectation that the Participant will return to service with the employer after such leave of absence, a Separation from Service will be deemed to have occurred on the date that is six (6) months (or in the case of a disability leave, twenty-nine (29) months if the Participant was Disabled prior to January 1, 2010) following the start of such leave; *provided that*, if the Participant has a statutory or contractual right to return to active employment that extends beyond the end of such leave period, the Separation from Service will be deemed to have occurred upon the expiration of such statutory or contractual right; and if such Employee has a Termination of Employment during such leave period, the Separation from Service will be deemed to have occurred on such Termination of Employment. A "disability" leave for this purpose means an absence during which the individual is unable to perform the duties of his position of employment or any substantially similar position of employment due to any medically determinable physical or mental impairment that can be expected to result in death or can be expected to last for a continuous period of not less than six (6) months.

In the case of a sale or other disposition of stock or substantial assets, whether a Separation from Service has occurred may be affected by the provisions of the CONTRACTUAL OBLIGATIONS SECTION of Article IX.

Specified Employee means an Employee who at any time during the twelve (12) month period ending on the identification date (defined below) was a "key employee" as defined under Code § 416(i) (applied in accordance with the regulations thereunder, but without regard to paragraph (5) thereof). The Administrator or the Company may adopt a Specified Employee Identification Policy that specifies the identification date, the effective date of any change in the key employee group, compensation definition and other variables that are relevant in identifying Specified Employees, and which may include an alternative method of identifying Specified Employees consistent with the regulations under Code § 409A. In the absence of any such policy or policy provision, for purposes of the above, the "identification date" is each December 31st, and an Employee who satisfies the above conditions will be considered to be a "Specified Employee" from April 1st following the identification date to March 31st of the following year, and the compensation and other variables, and special rules for corporate events and special rules relating to nonresident aliens, that are necessary in identifying Specified Employees will be determined and applied in accordance with the defaults specified in the regulations under Code § 409A. Any Specified Employee Identification Policy will apply uniformly to all nonqualified deferred compensation plans subject to Code § 409A that are maintained by the Company or a Controlled Group Member.

Supplemental Benefit means the benefit payable to a Participant in the form of a lump-sum payment or an annuity under the provisions of the Plan, as determined in Article III.

Termination of Employment means that the common-law employer-employee relationship has ended between the Employee and the Company and Controlled Group Members, as determined under the employment policies and practices of Principal Life (including by reason of voluntary or involuntary termination, retirement, death, expiration of and failure to return from a recognized leave of absence, or otherwise). A Termination of Employment does not occur merely as a result of transfer of employment from one Controlled Group Member to another Controlled Group Member or from the Company to a Controlled Group Member or from a Controlled Group Member to the Company. In the case of an Employee working for a Controlled Group Member, a Termination of Employment will not occur merely because his employer no longer satisfies the definition of a Controlled Group Member by reason of a stock sale or similar corporate transaction (assuming the individual continues in the employ of that employer or a new affiliate of that employer after the sale).

Traditional Benefit Supplement means the Supplemental Benefit payable to the Participant under the conditions specified in the TRADITIONAL BENEFIT ENTITLEMENT SECTION of Article III when expressed as a single life annuity starting as of the Participant's Normal Retirement Date (or as of the last day of the month following his Separation from Service if that occurs after his Normal Retirement Date).

Vested means that a Participant is entitled to a Supplemental Benefit under the Plan as determined under Article IV.

Vesting Service means Vesting Service as determined under the Associated Plan.

ARTICLE II

PARTICIPATION

SECTION 2.01 — ELIGIBLE GROUP.

All Employees who are in the Eligible Group will be eligible to participate in the Plan. An Employee is in the Eligible Group if:

- (a) He is employed with the Company or a Participating Controlled Group Member (while it is a Participating Controlled Group Member);
- (b) He is participating in the Associated Plan;

- (c) His Compensation for the Plan Year is in excess of the dollar limit in effect for the Plan Year under Code § 401(a)(17); and
- (d) The Corporate Management Committee, which is described in the ADMINISTRATION SECTION of Article VIII, has selected the individual for participation and has directed the Administrator to notify the individual in writing that he is eligible to participate in the Plan.

The Corporate Management Committee (or, in the case of a Senior Vice President or above, the Human Resources Committee of the Board) in its sole and absolute discretion may determine that an Employee who satisfies the conditions of paragraph (c) above will not be eligible to participate in the Plan. The Plan is intended to cover only those Employees who are in a select group of management or highly compensated employees within the meaning of ERISA §§ 201(2), 301(a)(3) and 401(a)(1); and, accordingly, if any interpretation is issued by the Department of Labor that would exclude any Employee from satisfying that requirement, such Employee immediately will cease to be in the Eligible Group.

An Employee will cease to be in the Eligible Group upon his Separation from Service or as of such earlier date on which he ceases to satisfy the eligibility requirements specified above.

An Employee who ceases to be in the Eligible Group will cease to be an Active Participant as of the date provided in the END OF ELIGIBILITY AND PARTICIPATION SECTION of this Article.

SECTION 2.02 — NOTICE OF ELIGIBILITY.

The Administrator will notify an Employee in writing of his eligibility to participate in the Plan and an individual will not be eligible until he receives such notice.

SECTION 2.03 — INITIAL ENROLLMENT.

An Employee in the Eligible Group will be automatically enrolled. If he has not already been a participant in any Aggregated Plan he will be allowed to make a distribution election under the Plan during the thirty (30) day period following the date he is notified of his eligibility to participate in the Plan. A distribution election will be irrevocable at the end of the thirty (30) day period.

Distribution elections must be made in such manner and in accordance with such rules as may be prescribed for this purpose by the Administrator.

SECTION 2.04 — END OF ELIGIBILITY AND PARTICIPATION.

An Active Participant will continue as an Active Participant until the earliest of

- (a) The date of his Separation from Service;
- (b) The date on which the Plan is terminated in a liquidation termination described in the AMENDMENT AND TERMINATION SECTION of Article X; or
- (c) The last day of the Plan Year in which he ceases to be in the Eligible Group (other than as a result of a Separation from Service) or in which the Plan is terminated other than in a liquidation termination described in the AMENDMENT AND TERMINATION SECTION of Article X.

A Participant will continue as a Participant until he has received a full distribution of the benefit due under the Plan.

In the event a Participant's eligibility under this Plan ceases as the result of a change in workforce classification and as a result the Participant becomes eligible and enrolls in The Principal Financial Group Nonqualified Defined Benefit Plan for Individual Field, his benefits and liabilities will transfer to The Principal Financial Group Nonqualified Defined Benefit Plan for Individual Field.

SECTION 2.05 — REENROLLMENT FOLLOWING A SEPARATION FROM SERVICE.

In the case of an individual who ceases to be in the Eligible Group and who later reenters the Eligible Group:

- (a) If he reenters the Eligible Group twenty-four (24) months or more after he both ceases to be an Active Participant and ceases to be eligible under all Aggregated Plans, he will be enrolled in accordance with the INITIAL ENROLLMENT SECTION of this Article. The distribution elections made upon reenrollment or subsequent changes to such elections will not affect the form of benefit payment or timing of a benefit payment the individual will receive or is receiving as a result of a previous distribution event.
- (b) If he reenters the Eligible Group within twenty-four (24) months after he both ceases to be an Active Participant and ceases to be eligible under all Aggregated Plans, he will remain enrolled and the distribution elections that were in effect when he ceased to be in the Eligible Group will be reinstated when he reenters the Eligible Group. However, the timing of a benefit payment the individual will receive or is receiving as a result of a previous distribution event will not be affected.

SECTION 2.06 – TRANSFER FROM THE PRINCIPAL FINANCIAL GROUP NONQUALIFIED DEFINED BENEFIT PLAN FOR INDIVIDUAL FIELD.

In the case of an individual who transfers from The Principal Financial Group Nonqualified Defined Benefit Plan for Individual Field to the Plan:

- (a) Such individual's benefit and liability from The Principal Financial Group Nonqualified Defined Benefit Plan for Individual Field will transfer to the Plan.
- (b) Any distribution election made by the individual under The Principal Financial Group Nonqualified Defined Benefit Plan for Individual Field, or if no election was made, such default distribution form and time, shall continue to apply to his benefit under the Plan, subject to additional distribution elections allowed under Section 6.05, and the other terms of the Plan.
- (c) The beneficiary designated under The Principal Financial Group Nonqualified Defined Benefit Plan for Individual Field shall be the Beneficiary designated for purposes of the Plan, until otherwise revised consistent with Section 10.05 and the terms of the Plan.

ARTICLE III

DETERMINATION OF BENEFITS

SECTION 3.01 — SUPPLEMENTAL BENEFIT.

To determine a Participant's Supplemental Benefit, a comparison first will be made of the single lump-sum amounts derived under A and under B, where:

"A" = A1 minus A2, where:

"A1" = The balance that would have been credited to the Participant's Cash Balance Account if credits and benefits were determined without regard to:

- (i) The limit on compensation taken into account under the Associated Plan under Code § 401(a)(17); and
- (ii) The limit on the benefit accrued and payable under the Associate Plan under Code § 415(b).

"A2" = The actual balance of the Participant's Cash Balance Account; *provided that*, if the Participant receives a distribution under the Associated Plan prior to distribution of the

Supplemental Benefit, the balance determined hereunder will equal the balance that would have been in the Participant's Cash Balance Account as if no distribution from the Associated Plan had taken place, or

"B" = With respect to a Participant who has an Accrued Traditional Benefit attributable to the period on or after January 1, 2002, equals B1 minus B2, where:

"B1" = The following amount, as applicable:

For Grandfathered Choice Participants: In the case of a Grandfathered Choice Participant, "B1" equals the Present Value of the greater of B1a or B1b (subject to the adjustment described below if the date of determination is prior to the Participant's Normal Retirement Date), where:

"B1a" = The Participant's Accrued Traditional Benefit; or

"B1b" = The Participant's top-hat formula benefit.

A Participant's "top-hat formula benefit" for this purpose is the single life annuity payable starting as of the Participant's Normal Retirement Date (or as of the last day of the month following his Separation from Service if that occurs after his Normal Retirement Date) in an amount equal to 1 + 2 - 3, where:

"1" = 70.5% of the Participant's Average Compensation multiplied by his Accrued Benefit Adjustment (Pre-89) (Traditional Benefit).

"2" = 65% of the Participant's Average Compensation multiplied by his Accrued Benefit Adjustment (Traditional Benefit).

"3" = The Participant's Social Security Benefit multiplied by the sum of his Accrued Benefit Adjustment (Pre-89) (Traditional Benefit) and his Accrued Benefit Adjustment (Traditional Benefit).

For purposes of determining a top-hat formula benefit, a Participant's "Average Compensation", "Accrued Benefit Adjustment (Pre-89) (Traditional Benefit)", "Accrued Benefit Adjustment (Traditional Benefit)" and related definitions and variables will be determined in accordance with the Associated Plan. A Participant's "Social Security Benefit" means the monthly payment of primary insurance benefits determined for a Participant by applying a salary scale, projected backwards, to the Participant's pay as of any date of determination (the salary scale used will be the actual change in the average wages from year to year as determined by the Social Security Administration).

B1a and B1b will be determined without regard to:

- (i) The limit on compensation taken into account under the Associated Plan under Code § 401(a) (17); and
- (ii) The limit on the benefit accrued and payable under the Associate Plan under Code § 415(b).

If the Participant's Separation from Service occurs on or after the date he attains age fifty-seven (57), or if the Supplemental Benefit is being determined before the Participant's Separation from Service, but on or after the date he attains age fifty-seven (57), and the date of determination is before the Participant's Normal Retirement Date, the single life annuity in B1a or B1b, as applicable, will be adjusted to equal the following percent of the single life annuity payable at the Participant's Normal Retirement Date to derive an immediate commencement single life annuity:

Age at Date of Determination	Adjustment Percentage
64	100%
63	100%
62	100%
61	95%
60	90%
59	85%
58	80%
57	75%

"B1" will then equal the greater of the Present Value of the immediate commencement annuity determined as adjusted above, or the Present Value of the deferred commencement single life annuity payable at the Participant's Normal Retirement Date.

The above adjustment percentages shall be prorated for a partial year (to four decimal places and counting a partial month as a complete month).

If the Participant's Separation from Service occurs before the date the Participant attains age fifty-seven (57), and the date of determination is on or after the date he attains age fifty-seven (57) but before his Normal Retirement Date, the single life annuity in B1a or B1b, as applicable, will be adjusted to equal the following percent of the single life annuity payable at the Participant's Normal Retirement Date to derive an immediate commencement single life annuity:

Age at Date of Determination	Adjustment Percentage
64	92.87%
63	86.45%
62	80.65%
61	75.39%
60	70.61%
59	66.25%
58	62.27%
57	58.62%

"B1" will then equal the greater of the Present Value of the immediate commencement annuity determined as adjusted above, or the Present Value of the deferred commencement single life annuity payable at the Participant's Normal Retirement Date.

The above adjustment percentages shall be prorated for a partial year (to four decimal places and counting a partial month as a complete month).

If the date of determination is before the date the Participant attains age fifty-seven (57), the single life annuity in B1a or B1b, as applicable, will be the single life annuity payable at the Participant's Normal Retirement Date, and "B1" will equal the Present Value of such deferred commencement annuity.

If a Participant has elected to defer payment pursuant to the DISTRIBUTION ELECTION PROCEDURES SECTION of Article VI, resulting in his Supplemental Benefit commencing after his Normal Retirement Date, the single life annuity above will be adjusted to equal the following percent of the single life annuity payable at the Participant's Normal Retirement Date to derive an immediate commencement single life annuity:

Number of Years That Follow Normal Retirement Date	Adjustment Percentage
1	106%
2	112%
3	119%
4	126%
5	134%
6	142%
7	150%
8	159%
9	169%
10	179%

"B1" will then equal the greater of the Present Value of the immediate commencement annuity determined as adjusted above.

The above adjustment percentages shall be prorated for a partial year (to four decimal places and counting a partial month as a complete month).

For Other Participants: In the case of any other Participant, "B1" equals the Present Value of the sum of B1c and B1d (subject to the adjustment described below if the date of determination is prior to the Participant's Normal Retirement Date), where:

"B1c" = The Participant's Accrued Traditional Benefit in excess of the benefit derived under B1d; and

"B1d" = In the case of a Participant who has an Accrued Traditional Benefit as of December 31, 2005, the greater of 1 or 2, where:

"1" = The Participant's Accrued Traditional Benefit, calculated as if the Participant's Termination of Employment had occurred on December 31, 2005 (or earlier date of actual Termination of Employment); or

"2" = The Participant's top-hat formula benefit under B1b, above, calculated as if the Participant's Termination of Employment had occurred on December 31, 2005 (or earlier date of actual Termination of Employment).

B1c and B1d will be determined without regard to:

- (i) The limit on compensation taken into account under the Associated Plan under Code § 401(a) (17); and
- (ii) The limit on the benefit accrued and payable under the Associate Plan under Code § 415(b).

If the Participant's Separation from Service occurs on or after the date he attains age fifty-seven (57), or if the Supplemental Benefit is being determined before the Participant's Separation from Service, but on or after the date he attains age fifty-seven (57), and the date of determination is before the Participant's Normal Retirement Date, the single life annuity above will be adjusted to equal the following percent of the single life annuity payable at the Participant's Normal Retirement Date to derive an immediate commencement single life annuity:

Age at Date of Determination	Adjustment Percentage For Benefit Under B1d	Adjustment Percentage For Benefit Under B1c
64	100%	97%
63	100%	94%

62	100%	91%
61	95%	88%
60	90%	85%
59	85%	82%
58	80%	79%
57	75%	75%

"B1" will then equal the greater of the Present Value of the immediate commencement annuity determined as adjusted above, or the Present Value of the deferred commencement single life annuity payable at the Participant's Normal Retirement Date.

The above adjustment percentages shall be prorated for a partial year (to four decimal places and counting a partial month as a complete month).

If the Participant's Separation from Service occurs before the date the Participant attains age fifty-seven (57), and the date of determination is on or after the date the Participant attains age fifty-seven (57) but before his Normal Retirement Date, the single life annuity above will be adjusted to equal the following percent of the single life annuity payable at the Participant's Normal Retirement Date to derive an immediate commencement single life annuity:

Age at Date of Determination	Adjustment Percentage
64	92.87%
63	86.45%
62	80.65%
61	75.39%
60	70.61%
59	66.25%
58	62.27%
57	58.62%

"B1" will then equal the greater of the Present Value of the immediate commencement annuity determined as adjusted above, or the Present Value of the deferred commencement single life annuity payable at the Participant's Normal Retirement Date.

The above adjustment percentages shall be prorated for a partial year (to four decimal places and counting a partial month as a complete month).

If the date of determination is before the date the Participant attains age fifty-seven (57), the single life annuity in B1a or B1b, as applicable, will be the single life annuity payable at the Participant's Normal Retirement Date, and "B1" will equal the Present Value of such deferred commencement annuity.

If a Participant has elected to defer payment pursuant to the DISTRIBUTION ELECTION PROCEDURES SECTION of Article VI, resulting in his Supplemental Benefit commencing after his Normal Retirement Date, the single life annuity above will be adjusted to equal the following percent of the single life annuity payable at the Participant's Normal Retirement Date to derive an immediate commencement single life annuity:

Number of Years That Follow Normal Retirement Date	Adjustment Percentage
1	106%
2	112%
3	119%
4	126%
5	134%

6	142%
7	150%
8	159%
9	169%
10	179%

"B1" will then equal the greater of the Present Value of the immediate commencement annuity determined as adjusted above.

The above adjustment percentages shall be prorated for a partial year (to four decimal places and counting a partial month as a complete month). Adjustment percentages for numbers of years beyond 10 shall be determined using a consistently applied equivalent method by expanding the table above

"B2" = The following amount, as applicable:

For Grandfathered Choice Participants: In the case of a Grandfathered Choice Participant, "B2" equals the Present Value of B1a, above (subject to adjustment as described above if the date of determination is prior to the Participant's Normal Retirement Date) but determined after taking into account the limits specified in (i) and (ii) above.

For Other Participants: In the case of any other Participant, "B2" equal the Present Value of the sum of B1c and "1" under B1d, above (subject to adjustment as described above if the date of determination is prior to the Participant's Normal Retirement Date), but determined after taking into account the limits specified in (i) and (ii) above

"B" will never be less than B1 minus B2 determined as if the Participant's Termination of Employment had occurred on December 31, 2005 (or earlier date of actual Termination of Employment), reduced by the portion thereof subsequently provided under the Associated Plan.

For purposes of both B1 and B2, a single life annuity under B1a, B1b and B1d (but not B1c) used to derive a Present Value will be deemed to include an annual cost-of-living adjustment described in the Cost of Living Adjustment Assumption of the Associated Plan.

SECTION 3.02 — CASH BALANCE BENEFIT ENTITLEMENT.

A Participant will be entitled to a Cash Balance Benefit Supplement if the lump-sum amount described in "A" under the SUPPLEMENTAL BENEFIT SECTION of this Article is greater than the lump-sum amount described in "B" (or if "B" does not apply to the Participant).

A Participant who is entitled to a Cash Balance Benefit Supplement may receive his Supplemental Benefit upon the occurrence of a distribution event described in the DISTRIBUTION EVENTS SECTION of Article V and in accordance with the DISTRIBUTION ELECTION PROCEDURES SECTION of Article VI.

SECTION 3.03 — TRADITIONAL BENEFIT ENTITLEMENT.

A Participant will be entitled to a Traditional Benefit Supplement if the lump-sum amount described in "B" under the SUPPLEMENTAL BENEFIT SECTION of this Article is greater than the lump-sum amount described in "A".

A Participant who is entitled to a Traditional Benefit Supplement may receive his Supplemental Benefit upon the occurrence of a distribution event described in the DISTRIBUTION EVENTS SECTION of Article V and in accordance with the DISTRIBUTION ELECTION PROCEDURES SECTION of Article VI.

SECTION 3.04 — REEMPLOYED PARTICIPANTS.

If a Participant has a Separation from Service and subsequently is reemployed with the Company or a Participating Controlled Group Member and again becomes an Active Participant in this Plan, his Supplemental Benefit for the period after he again becomes an Active Participant will be determined under "A" of the

SUPPLEMENTAL BENEFIT SECTION of this Article, and any Supplemental Benefit attributable to his prior period of participation will be determined and paid as a separate benefit under the Plan.

ARTICLE IV

VESTING

SECTION 4.01 — VESTING.

A Participant will be entitled to a Supplemental Benefit under this Plan only when he is Vested. A Participant is Vested on the later of the date on which he has:

- (a) Completed three (3) years of Vesting Service; or
- (b) Been an Active Participant in this Plan for at least twelve (12) months.

SECTION 4.02 — FORFEITURE.

If a Participant has a Separation from Service before he is Vested, he will forfeit his Supplemental Benefit. However, if a Participant is subsequently rehired by the Company or a Participating Controlled Group Member and again becomes an Active Participant in the Plan, his Supplemental Benefit may be reinstated if that is the result under the Associated Plan and subject to the REEMPLOYED PARTICIPANTS SECTION of Article III.

ARTICLE V

DISTRIBUTION EVENTS

SECTION 5.01 — DISTRIBUTION EVENTS.

A Participant's Cash Balance Benefit Supplement or Traditional Benefit Supplement will be distributed upon the first of the following distribution events to occur:

- (a) Fixed Date Distribution. A Participant's Supplemental Benefit will be payable as follows:
 - (i) A Field Manager may specify a date upon which his entire Supplemental Benefit becomes payable; *provided that*, the date specified must be after he attains age sixty (60) but prior to the date on which he attains age sixty-five (65).
 - (ii) A Participant who is not a Field Manager, and became eligible for the Plan prior to January 1, 2010, may specify a date upon which his entire Supplemental Benefit becomes payable; *provided that*, the date specified must be after he attains age sixty (60) but prior to the date on which he attains age sixty-five (65). This distribution event is not available to a Participant who is not a Field Manager and who becomes eligible for the Plan on or after January 1, 2010.
- (b) Mandatory Distribution. A Participant's Supplemental Benefit will be payable as follows:
 - (i) A Field Manager's Supplemental Benefit becomes payable on the date he attains age sixty-five (65).
 - (ii) A Participant who is not a Field Manager's Supplemental Benefit becomes payable on the date he attains age sixty-five (65). This distribution event is not available to a Participant who is not a Field Manager who becomes eligible for the Plan on or after January 1, 2010.
- (c) Separation from Service Distribution. A Participant's Supplemental Benefit becomes payable on the date he incurs a Separation from Service.
- (d) Disability Distribution. In the event of a Disability that occurs prior to January 1, 2010, a Participant's Supplemental Benefit will be payable as follows:

- (i) If the Participant was hired prior to January 1, 2002 and has ten (10) or more years of Vesting Service on the date he became Disabled, the Supplemental Benefit will be payable on the date the Participant's attains age sixty-five (65).
- (ii) If the Participant was hired or rehired after January 1, 2002 or has less than 10 years of Vesting Service on the date he became Disabled, the Supplemental Benefit will be payable on the date that is twenty-nine (29) months following the date he becomes Disabled.

Disability will not be a distribution event if a Participant becomes Disabled on or after January 1, 2010.

- (e) Death Distribution. A Participant's Supplemental Benefit becomes payable after death as provided in the SURVIVOR BENEFITS PRIOR TO BENEFIT COMMENCEMENT DATE SECTION of Article VI.
- (f) Change of Control Distribution. A Participant's Supplemental Benefit becomes payable on the last day of the month on or after the date of a Change of Control.

If a Participant is not Vested as of a distribution date specified in paragraph (a) or (b), payment will not be made unless and until the Participant is Vested. Also, a distribution to a Participant who is a Specified Employee upon a distribution event specified in paragraph (c) will be delayed as provided in the SPECIFIED EMPLOYEE SECTION of Article VII.

If a Participant remains an Active Participant in the Plan after a distribution is made (or has started) under a date specified in paragraph (a), (b) or (f), any subsequent accruals after such date will be accumulated and paid as of the next distribution event to occur in accordance with the elections made by the Participant with respect to his Supplemental Benefit and the terms of the Plan, reduced by what was previously paid under paragraph (a), (b) or (f), as applicable.

SECTION 5.02 — ACCELERATION UPON CHANGE OF CONTROL.

If a Change of Control occurs while a Participant is receiving annuity payments (or is scheduled to commence such payments) and the Participant had elected a more rapid payment schedule to apply in the event of a Change of Control (for example, a lump-sum payment), the more rapid payment schedule will apply following the Change of Control. A lump-sum payment of the remaining payments due under an annuity following a Change of Control will equal the present value of the payments remaining due under the annuity payment form being paid, with present value determined using the following actuarial assumptions: Interest – the average of (a) and (b), where: a) 50% allocation to S & P 500 returns (geometric average over 50 years) pulled from Wilshire Compass Service and (b) 50% allocation to the single effective rate for IRC 417(e)(3)(D) segment rates for an age 65 life annuity that are applicable for the plan year of distribution (Average monthly segment rates for September – November of the calendar year prior to the calendar year of distribution). Mortality Assumption – IRC 417(e)(3)(B) mortality table used under the Associated Plan. An accelerated annuity payable following a Change in Control will be the Actuarial Equivalent of the remaining payments due in the annuity payment form then being paid.

SECTION 5.03 — CASH-OUT OF SMALL BENEFITS.

If the present value of the Participant's Supplemental Benefit does not exceed the applicable dollar amount then in effect under Code § 402(g)(1)(B) at his Benefit Commencement Date, then the Participant will be paid such present value in a single lump-sum distribution in full settlement of all obligations under the Plan. Also, if the present value of the Participant's Supplemental Benefit under this Plan, together with his benefits under all other Aggregated Plans maintained by the Company or a Controlled Group Member does not exceed the applicable dollar amount then in effect under Code § 402(g)(1)(B) as of his Benefit Commencement Date or any later date, then the Administrator may in its sole and absolute discretion direct that the Participant be paid such present value, plus his entire interest under all Aggregated Plans, in a single-sum distribution in full settlement of all obligations under the Plan and such other plans. The Administrator may in its sole and absolute discretion direct that such present value will be paid in a single-sum distribution in full settlement of all obligations under the Plan. For this purpose, present value will be determined using the following actuarial assumptions: Interest – the average of (a) and (b), where: a) 50% allocation to S & P 500 returns (geometric

average over 50 years) pulled from Wilshire Compass Service and (b) 50% allocation to the single effective rate for IRC 417(e)(3)(D) segment rates for an age 65 life annuity that are applicable for the plan year of distribution (Average monthly segment rates for September – November of the calendar year prior to the calendar year of distribution). Mortality Assumption – IRC 417(e)(3)(B) mortality table used under the Associated Plan

ARTICLE VI

DISTRIBUTION OPTIONS

SECTION 6.01 — FORM OF DISTRIBUTION.

A Participant may elect to receive a distribution in any of the following forms (subject to the CASH-OUT OF SMALL BENEFITS SECTION of Article V):

- (a) A single lump-sum payment; or
- (b) An annuity, the form of which will be elected before the Benefit Commencement Date from among one of the following actuarially equivalent payment forms:
 - (i) A single life annuity;
 - (ii) A single life annuity with a term-certain period of sixty (60), one-hundred and twenty (120) or one-hundred and eighty (180) months, as elected by the Participant; or
 - (iii) A joint and survivor annuity and with a survivor percentage of fifty percent (50%), sixty-six and two-thirds percent (66-2/3%) or one-hundred percent (100%), as elected by the Participant.

If an annuity is elected, the Benefit Commencement Date will be the later of age 57 or the date of the distribution event under the DISTRIBUTION EVENTS SECTION of Article V.

If an annuity is elected, and at the Benefit Commencement Date the Participant fails to elect the form of annuity, the distribution shall be paid in a form of annuity determined as follows:

- (a) If the Participant is married on the Benefit Commencement Date, the form of annuity shall be a joint and survivor annuity with a survivor percentage of fifty percent (50%).
- (b) If the Participant is single on the Benefit Commencement Date, the form of annuity shall be a single life annuity.

SECTION 6.02 — CALCULATION OF LUMP-SUM PAYMENTS.

In the case of a Participant who is entitled to a Cash Balance Benefit Supplement, a single lump-sum payment under paragraph (a) of the FORM OF DISTRIBUTION SECTION of this Article will equal "A", as determined under the SUPPLEMENTAL BENEFIT SECTION of Article III.

In the case of a Participant who is entitled to a Traditional Benefit Supplement, a single lump-sum payment under paragraph (a) of the FORM OF DISTRIBUTION SECTION of this Article will equal the amount determined in paragraph (a) or (b) below, as applicable; *provided that*, in no event will the lump-sum payment be less than A1 minus A2, as determined under the SUPPLEMENTAL BENEFIT SECTION of Article III:

- (a) If the date of determination is on or after the Participant attains age fifty-seven (57), the single lump-sum payment will equal the present value of the immediate single life annuity that would be payable as of such date as provided in the CALCULATION OF ANNUITY PAYMENTS SECTION of this Article; or
- (b) If the date of determination is before the Participant attains age fifty-seven (57), the single lump-sum payment will equal the present value of a deferred single life annuity payable as of the last day of the

month on or after which the Participant will attain age fifty-seven (57) with monthly payments equal to 58.62% of the single life annuity payable at the Participant's Normal Retirement Date, as determined in "B" of the SUPPLEMENTAL BENEFIT SECTION of Article III.

For this purpose, present value will be determined using the following actuarial assumptions: Interest – the average of (a) and (b), where: a) 50% allocation to S & P 500 returns (geometric average over 50 years) pulled from Wilshire Compass Service and (b) 50% allocation to the single effective rate for IRC 417(e)(3)(D) segment rates for an age 65 life annuity that are applicable for the plan year of distribution (Average monthly segment rates for September – November of the calendar year prior to the calendar year of distribution). Mortality Assumption – IRC 417(e)(3)(B) mortality table used under the Associated Plan.

A single life annuity under B1a, B1b and B1d (but not B1c) of the SUPPLEMENTAL BENEFIT SECTION of Article III used to derive a present value will be deemed to include an annual cost-of-living adjustment equal to 75% of the difference in yields between 20-year Treasury Inflation Protected Securities (TIPS) and 20-year Treasury constant maturities (using the average for September, October and November of the calendar year prior to distribution).

SECTION 6.03 — CALCULATION OF ANNUITY PAYMENTS.

In the case of a Participant who is entitled to a Cash Balance Benefit Supplement, an annuity under paragraphs (b)(i), (b)(ii) or (b)(iii) of the FORM OF DISTRIBUTION SECTION of this Article will be the Actuarial Equivalent of the single lump-sum payment under paragraph (a) of the FORM OF DISTRIBUTION SECTION of this Article.

In the case of a Participant who is entitled to a Traditional Benefit Supplement, the single life annuity payable under paragraph (b) of the FORM OF DISTRIBUTION SECTION of this Article will be determined as follows:

- (a) If the date of determination is on or after the Participant's Normal Retirement Date, the single life annuity will be determined as provided in "B" of the SUPPLEMENTAL BENEFIT SECTION of Article III (without adjustment for early commencement).
- (b) If the date of determination is on or after the Participant attains age fifty-seven (57), but before his Normal Retirement Date, the single life annuity will be determined as provided in "B" of the SUPPLEMENTAL BENEFIT SECTION of Article III, adjusted to an immediate commencement annuity using the applicable factors specified therein.

In the case of a Participant who is entitled to a Traditional Benefit Supplement, an annuity under paragraphs (b)(ii) or (b)(iii) of the FORM OF DISTRIBUTION SECTION of this Article will be the Actuarial Equivalent of the single life annuity calculated above.

A annuity under B1a, B1b and B1d (but not B1c) of the SUPPLEMENTAL BENEFIT SECTION of Article III will include a cost-of-living adjustment in the same manner as provided under the Associated Plan.

An annuity payment stream will be treated as a single payment (made at the first scheduled payment date) for purposes of Code § 409A.

SECTION 6.04 — SURVIVOR BENEFITS PRIOR TO BENEFIT COMMENCEMENT DATE.

If a Participant is Vested and dies prior to his Benefit Commencement Date, his Beneficiary will be entitled to a survivor benefit under the Plan in an amount determined as follows:

- (a) If the Participant is entitled to a Cash Balance Benefit Supplement, and elected a single lump sum payment, the survivor benefit payable to the Beneficiary will be the single lump-sum payment amount described in paragraph (a) of the FORM OF DISTRIBUTION SECTION of this Article. If the Participant elected an annuity, the single sum lump payment will be converted to an annuity as described in Section 3.02. The Beneficiary will begin receiving the annuity on the later of 1) the date the Participant's would have attained age 57 or 2) the date of the Participant's death.

- (b) If the Participant is entitled to a Traditional Benefit Supplement, the survivor benefit will be the survivor annuity benefit that would have been payable if the Participant had started his Traditional Benefit Supplement in the form of joint and survivor annuity with a survivor percentage of fifty percent (50%) immediately prior to his death, and then died after the start of such annuity; however, the survivor benefit shall never be less than the survivor benefit that would have been paid under paragraph (a) of this SURVIVOR BENEFITS PRIOR TO BENEFIT COMMENCEMENT DATE SECTION.

The survivor benefit will be paid or commence to the Beneficiary on the death of the Participant consistent with the TIME OF DISTRIBUTION SECTION of Article VII. Notwithstanding the above, an annuity under (a) or (b) is an available payment form only if the commencement date of survivor benefit is at or after the date the Participant would have attained age fifty-seven (57). If the Participant would have not yet attained age fifty-seven (57) and an annuity was elected as the payment form, the survivor will begin receiving the annuity on the date the Participant would have attained age fifty-seven (57).

SECTION 6.05 — DISTRIBUTION ELECTION PROCEDURES.

An election regarding the form of payment under the Plan must be made in such manner and in accordance with such rules as may be prescribed for this purpose by the Administrator. A distribution election will be effective only if it is received in properly completed form by the Administrator as part of the Participant's first enrollment in the Plan, and will be irrevocable after the expiration of the initial enrollment period; *except that*, a Participant who has elected (or is defaulted to) an annuity may elect an annuity form of payment prior to the Benefit Commencement Date.

A Participant will be allowed a separate payment form election to apply in the case of each event specified in the DISTRIBUTION EVENTS SECTION of Article V. Further, with respect to each event specified in the DISTRIBUTION EVENTS SECTION of Article V (other than a Fixed Date Distribution), a Participant will be allowed to specify a different payment form that will apply if the event occurs before or after an age specified by the Participant as part of his election.

In accordance with the requirements and procedures prescribed by the Administrator, a Participant may elect to defer payment (one time only with respect to each distribution event specified in the DISTRIBUTION EVENTS SECTION of Article V), *provided that*:

- (a) The election to defer must be received in properly completed form by the Administrator at least twelve (12) months prior to the distribution event; and
- (b) The deferral must be for at least five (5) years from the originally scheduled payment date, provided that this requirement will not apply to an election to defer payment upon death.

Notwithstanding the timing requirements that would otherwise apply above, a Participant may change his form of payment election from any of the options specified in the FORM OF DISTRIBUTION SECTION of this Article provided that the Participant makes a new payment election by December 31, 2008. Any election made during the period from January 1, 2008, through December 31, 2008, will apply only to amounts that would not otherwise be payable in 2008, and will not apply to the extent that the election change would cause an amount to be paid in 2008 that would not otherwise be payable in 2008.

SECTION 6.06 — DEFAULT ELECTION.

If a Participant fails to file a distribution election, the distribution will be made in the form of an annuity under the FORM OF DISTRIBUTION SECTION of this Article.

SECTION 6.07 — SURVIVOR BENEFITS IN EVENT OF DEATH AFTER ANNUITY COMMENCEMENT.

If a Participant elects an annuity with a survivor component as an optional form of payment and dies after commencement of such annuity, payments will continue consistent with the form of payment being received by the Participant. If the annuity elected by the Participant does not have a survivor component (e.g., a single life annuity), then no survivor benefits are payable to anyone if the Participant dies after payment or commencement of his Supplemental Benefit.

ARTICLE VII

TIMING OF DISTRIBUTION

SECTION 7.01 — TIME OF DISTRIBUTION.

The Administrator, in its sole discretion, if it deems it necessary or appropriate for administrative reasons, may defer any payment to a date later than the scheduled payment date within the calendar year or, if later, to the fifteenth (15th) day of the third calendar month following the scheduled payment date, without adjustment for deferred payment of any installment or annuity.

SECTION 7.02 — SPECIFIED EMPLOYEE.

A distribution made due to a Separation from Service of a Participant who is a Specified Employee on the Separation from Service date will not under any circumstances be made prior to the first business day that is six (6) months and one (1) day following the Participant's Separation from Service, except in the case of an intervening death of the Participant as provided in Article VI. However, this delayed payment requirement does not apply to any distribution event other than Separation from Service. In the event of a delayed payment to a Specified Employee, the last day of the calendar month following the Participant's Separation from Service will be treated as the "scheduled payment date or "date of determination" for purposes of calculating any Supplemental Benefit under this Plan, and the first payment made as of the first business day that is six (6) months and one (1) day following the Participant's Separation from Service will include any catch-up payment of all monthly payments, if applicable, that would have been made to the Participant (without any adjustment for interest or earnings) from the first day of the calendar month following the Participant's Separation from Service.

SECTION 7.03 — DISTRIBUTIONS PURSUANT TO A DOMESTIC RELATIONS ORDER.

The Plan permits the benefits actually payable to a Participant to be divided with a spouse or former spouse of the Participant who meets the definition of alternate payee under ERISA § 206(d) provided that the Administrator determines that the domestic relations order meets the criteria of a qualified domestic relations order, as defined in ERISA § 206(d). Such domestic relations order may provide for a distribution to an alternate payee prior to payment (or commencement) of a benefit to a Participant, in the form of a single lump sum payment. The Administrator's determination that a domestic relations order meets the requirements of ERISA § 206(d) will result in a distribution event and lump sum payment for the alternate payee and the timing requirements of Section 7.01 will apply. However, once an annuity form of benefit has commenced, the alternate payee shall not be able to receive a separate interest and will have a shared interest in the Participant's benefit as provided by the domestic relations order, consistent with the form of measuring life used for the annuity.

The Administrator will establish reasonable procedures to determine whether a domestic relations order meets the criteria of ERISA § 206(d). Upon receiving a domestic relations order, the Administrator promptly will notify the Participant and an alternate payee named in the order, in writing, of the receipt of the order and the Plan's procedures for determining the status of the order. Within a reasonable period of time after receiving the domestic relations order, the Administrator will determine the status of the order and will notify the Participant and each alternate payee, in writing, of its determination. The Administrator will provide notice under this paragraph by mailing to the individual's address specified in the domestic relations order.

If any portion of the Participant's benefit under this Plan is payable during the period the Administrator is making its determination of the status of the domestic relations order, a separate accounting will be made of the amount payable. If the Administrator determines the order is a domestic relations order within the criteria of ERISA § 206(d) within the calendar year in which amounts are first payable following receipt of the order or, if later, before the fifteenth (15th) day of the third calendar month following the scheduled payment date, the payable amounts will be distributed in accordance with the order. If the Administrator does not make its determination of the status of the order within such period, the payable amounts will be distributed in the manner the Plan would distribute if the order did not exist and the order will apply prospectively if the Administrator later determines the order meets the criteria of ERISA § 206(d).

The Plan will make payments or distributions required under this section by separate benefit checks or other separate distribution to the alternate payee and report the payments accordingly, provided however, that the Administrator may report distributions as income to the Participant for federal income tax and/or Social Security or other withholding purposes as it determines to be consistent with the requirements of the Code.

SECTION 7.04 — RIGHT OF OFFSET.

Notwithstanding any other provisions of this Plan, the Company reserves the right to withhold and setoff from any distribution or payment that is due and payable to a Participant or Beneficiary under the Plan any amount owed to the Company or any Controlled Group Member by the Participant, whether such obligation is matured or unmatured and however arising, at the time of (and with priority over) any such distribution or payment to the extent that the retention or exercise of such right does not have adverse tax consequences to the Participant or Beneficiary under Code § 409A. Further, the Company reserves the right to withhold and setoff from the actuarial value of the Participant's Supplemental Benefit (even if a payment or distribution is not then due and payable) any amount owed to the Company or any Controlled Group Member by the Participant as satisfaction of such obligation of the Participant, where such obligation is incurred in the ordinary course of the service relationship between the Participant and the Company or Controlled Group Member, the amount of reduction in any of the Company's or Controlled Group Member's taxable years does not exceed five-thousand dollars (\$5,000), and the entire reduction is made at the same time and in the same amount as the obligation otherwise would have been due and collected from the Participant.

The Administrator may exercise the Company's rights under this section.

SECTION 7.05 — DELAY OF PAYMENT UNDER CERTAIN CIRCUMSTANCES.

Any payment due under the Plan as of a distribution event specified in the DISTRIBUTION EVENTS SECTION of Article V may be delayed at the discretion of the Administrator to the extent that the Administrator reasonably anticipates that if the payment were made as scheduled:

- (a) a deduction with respect to such payment would not be permitted to Principal Financial Group due to the application of Code § 162(m). The payment will be made during the taxable year in which the Administrator reasonably anticipates or should reasonably anticipate that if the payment is made during such year, the deduction of such payment will be deductible under Code § 162(m); or
- (b) the making of the payment will violate federal securities laws or other applicable law. The payment will be made at the earliest date at which the Administrator reasonably anticipates that the making of the payment will not cause such violation.

Any payment so delayed will be deemed to have been paid in accordance with this Article (including any delay specified therein in the case of a Specified Employee).

SECTION 7.06 — PAYMENT OF EMPLOYMENT TAXES.

Notwithstanding any other provision of the Plan, the time or schedule of a payment may be accelerated, or a payment may be made under the Plan, to pay the Federal Insurance Contribution Act (FICA) tax imposed under Code §§ 3101, 3121(a), and 3121(v)(2), where applicable, on compensation deferred under the Plan ("FICA Amount"). Additionally, the time or schedule of a payment may be accelerated, or a payment may be made under the Plan, to pay the income tax at source on wages imposed under Code § 3401 or the corresponding withholding provisions of applicable state, local, or foreign tax laws as a result of the payment of the FICA Amount, and to pay the additional income tax at source on wages attributable to the pyramiding Code § 3401 wages and taxes. However, the total payment under this provision must not exceed the aggregate of the FICA Amount, and the income tax withholding related to such FICA Amount.

ARTICLE VIII

ADMINISTRATION OF PLAN

SECTION 8.01 — ADMINISTRATION.

The Administrator of the Plan has authority to control and manage the operation and administration of the Plan and make all decisions and determinations incident thereto. Other parties responsible for duties with respect to this Plan include the following:

- (a) Board or its Human Resources Committee. The Board or its Human Resources Committee is responsible for overseeing, generally, and performing nondiscretionary functions with respect to the Plan, except to the extent such authority has been delegated to a Company committee. The Human Resources Committee is responsible for recommending to the Board the amendment of the Plan, except that appropriate officers of the Company or Principal Life are authorized to make amendments to the Plan on an ongoing basis as they deem advisable to facilitate the administration of the Plan without substantially altering the level of benefits provided or the cost of the Plan to the Company, or to conform the Plan to applicable laws or regulations; provided such amendments are reviewed by the Corporate Management Committee.
- (b) Corporate Management Committee. The Corporate Management Committee is responsible for receiving reports and reviewing the recommendations of Principal Life's Human Resources Department staff and recommending amendments of the Plan. The Corporate Management Committee is responsible for acting as required by the Plan and reporting such actions to the Administrator and to the Human Resources Committee, as required by either.
- (c) Benefit Plans Investment Committee. The Benefit Plans Investment Committee of Principal Life is responsible for all investment matters relating to the Plan, including the investment of assets that may (but are not required to be) set aside to hedge liabilities resulting from the Plan, and actual investment of the rabbi trust, including the selection and monitoring of investment providers (including the Trustee) with respect to the Plan. Members of the Benefit Plans Investment Committee will be appointed by the Chief Executive Officer of Principal Life.

Day-to-day administrative duties with respect to the Plan will be performed by the Human Resources Department of Principal Life.

SECTION 8.02 — CORRECTION OF ERRORS AND DUTY TO REVIEW INFORMATION.

Errors may occur in the operation and administration of the Plan. The Administrator reserves the right to cause such equitable adjustments to be made to correct for such errors as it considers appropriate (including adjustments to Participant or Beneficiary benefits), which will be final and binding on the Participant or Beneficiary.

Each Participant and Beneficiary has the duty to promptly review any information that is provided or made available to the Participant or Beneficiary and that relates in any way to the operation and administration of the Plan or his elections under the Plan (for example, to review benefit statements to make sure investment elections are being implemented appropriately, to review Plan booklets and prospectuses, etc.) and to notify the Administrator of any error made in the operation or administration of the Plan that affects the Participant or Beneficiary within a reasonable period of time after such information is provided or made available to the Participant or Beneficiary (for example, the date the information is sent by mail or the date the information is provided or made available electronically). If the Participant or Beneficiary fails to review any information or fails to notify the Administrator of any error within such reasonable period of time, he will not be able to bring any claim seeking relief or damages based on the error. If the Administrator is notified of an alleged error within a reasonable period of time, the Administrator will investigate and either correct the error or notify the Participant or Beneficiary that it believes that no error occurred. If the Participant or Beneficiary is not satisfied with the correction (or the decision that no correction is necessary), he may file a formal claim under the claims procedures under the CLAIMS PROCEDURES SECTION of this Article.

The Administrator may exercise the Company's rights under this section.

SECTION 8.03 — CLAIMS PROCEDURES.

If a Participant or Beneficiary does not feel as if he has received full payment of the benefit due such person under the Plan, the Participant or Beneficiary may file a written claim with the Administrator setting forth the nature of the benefit claimed, the amount thereof, and the basis for claiming entitlement to such benefit. The Vice President and Chief Operating Officer of the Human Resources department of Principal Life will ordinarily determine the validity of and communicate a decision regarding the claim within ninety (90) days after the date of the claim. If additional information is necessary to make a determination on a claim, the claimant will be advised of the need for such additional information within forty-five (45) days after the date of the claim. The claimant will have up to one hundred and eighty (180) days to supplement the claim information, and the claimant will be advised of the decision on the claim within forty-five (45) days after the earlier of the date the supplemental information is supplied or the end of the one hundred and eighty (180) day period. A claim is considered approved only if its approval is communicated in writing to the claimant.

A claim for benefits which is denied will be denied by written notice setting forth in a manner calculated to be understood by the claimant:

- (a) The specific reason or reasons for the denial, including a specific reference to any provisions of the Plan (including any internal rules, guidelines, protocols, criteria, etc.) on which the denial is based;
- (b) A description of any additional material or information that is necessary to process the claim; and
- (c) An explanation of the procedure for further reviewing the denial of the claim and applicable time limit, including a statement of the claimant's right to bring a civil action under ERISA § 502(a) following an adverse benefit determination on review.

Within sixty (60) days after the receipt of a denial on a claim, a claimant or his authorized representative may file a written request for an appeal of such denial. Such appeal will be undertaken by the most senior Human Resources Leader of Principal Life and will be a full and fair review. The claimant will have the right to review all pertinent documents. If the claimant fails to file an appeal within 60 days of receipt of the denial on a claim, the claim will be deemed abandoned and the claimant precluded from reasserting it.

The most senior Human Resources Leader of Principal Life will issue a decision not later than sixty (60) days after receipt of the appeal from a claimant unless special circumstances, such as the need to hold a hearing, require a longer period of time, in which case a decision will be rendered as soon as possible but not later than one hundred and twenty (120) days after receipt of the claimant's appeal request. The decision on appeal will be in writing in a manner calculated to be understood by the claimant and will clearly set forth:

- (a) The specific reason or reasons for the adverse determination, including a specific reference to any provisions of the Plan (including any internal rules, guidelines, protocols, criteria, etc.) on which the denial is based.
- (b) a statement that the claimant is entitled to receive, upon request and free of charge, reasonable access to an copies of, all documents, records, and other information relevant to the claimant's claim for benefits; and
- (c) a statement describing any voluntary appeal procedures offered by the Plan and the claimant's right to obtain the information about such procedures as well as a statement of the claimant's right to bring an action under ERISA §502(a).

Decisions reached under these claims and appeals procedures shall be binding on all parties, including any Beneficiary or other person claiming through a Participant. Any legal action for benefits under the Plan may not be brought unless and until the claimant has exhausted his remedies under these procedures. In any such legal action, the claimant may be allowed to only present evidence and theories which the claimant presented during the claims and appeals process. Any claims which the claimant does not in good faith pursue through the appeal stage of the procedure may be treated as having been irrevocably waived.

Any suit or legal action initiated by a claimant under the Plan must be brought by the claimant no later than one year following a final decision on appeal by the most senior Human Resources Leader of Principal Life. The one-year limitation on suits for benefits will apply in any forum where a claimant initiates such suit or legal action.

The Participant will be solely responsible for taking prompt actions in the event of disputed payments as necessary to avoid any adverse tax consequences under Code § 409A, even if action is required to be taken under Code § 409A in a more timely manner than is required under this CLAIMS PROCEDURES SECTION.

Claims for benefits upon a Disability shall be determined in accordance with the rules for determining disability claims under DOL Regulation §2560.503-1, which is hereby incorporated by reference.

SECTION 8.04 — INDEMNIFICATION.

Each officer or employee responsible for the administration or operation of the Plan and each member of the Benefit Plans Investment Committee shall be indemnified and held harmless by the Company or Participating Controlled Group Member against and from any loss, cost, liability, or expense that may be imposed upon or reasonably incurred by such person in connection with or resulting from any claim, action, suit, or proceeding to which such person may be a party or in which such person may be involved by reason of any action taken or failure to act.

SECTION 8.05 — EXERCISE OF AUTHORITY.

The Company, the Administrator, the Corporate Management Committee, the Benefit Plans Investment Committee, and any other person or body who has authority with respect to the management, administration or investment of the Plan may exercise that authority in its/his full discretion. This discretionary authority includes, but is not limited to, the authority to make any and all factual determinations and interpret all terms and provisions of this document (or any other document established for use in the administration of the Plan) relevant to the issue under consideration. The exercise of authority will be binding upon all persons; and it is intended that the exercise of authority be given deference in all courts of law to the greatest extent allowed under law, and that it not be overturned or set aside by any court of law unless found to be arbitrary and capricious.

SECTION 8.06 — TELEPHONIC OR ELECTRONIC NOTICES AND TRANSACTIONS.

Any notice that is required to be given under the Plan to a Participant or Beneficiary, and any action that can be taken under the Plan by a Participant or Beneficiary, may be by means of voice response, Internet, or other electronic system to the extent so authorized by the Administrator.

SECTION 8.07 — REIMBURSEMENT OF LEGAL FEES.

If a Participant's or Beneficiary's claim for benefits under this Plan is denied pursuant to the CLAIMS PROCEDURES SECTION of this Article, the Company will be required to reimburse a Participant or Beneficiary who files a suit against the Company and prevails. Any such reimbursement of legal fees shall otherwise be made no later than the March 15th immediately following the year the Participant or Beneficiary obtains the right to reimbursement which is no longer subject to a substantial risk of forfeiture.

SECTION 8.08 – TRUSTEE CONTROL UPON COMMENCEMENT OF BENEFIT PAYMENTS.

Upon the commencement of a distribution of benefits to any Participant under this Plan, the Administrator will provide the trustee of a rabbi trust, which may be used as a funding vehicle for the benefits due under the Plan, with written directions regarding the time and form of payments due to each Participant pursuant to this Plan. Any directions provided by the Administrator to the trustee will be irrevocable except to the extent the Administrator has provided the trustee with satisfactory evidence that:

- (a) the schedule provided by the Administrator contains an error with respect to the amount or time of payment to the Participant (in which case the Administrator will correct the error);

- (b) the payment due to the Participant has been paid directly by the Company or a Controlled Group Member;
- (c) the Company has a right of setoff against a scheduled payment under the RIGHT OF OFFSET SECTION of Article VII which cannot be satisfied from any other source; or
- (d) the Participant has engaged in felony conduct detrimental to the business of the Company or a Participating Controlled Group Member.

The trustee will be obligated to follow a direction on file with it only to the extent of the assets held in the trust, and the trustee will have no obligation to seek funding of the trust from the Company or any Controlled Group Member.

ARTICLE IX

CONTRACTUAL OBLIGATIONS AND FUNDING

SECTION 9.01 — CONTRACTUAL OBLIGATIONS.

The Plan creates a contractual obligation on the part of the Company and each Participating Controlled Group Member, other than Principal Life, to provide benefits as set forth in the Plan with respect to:

- (a) Participants who are employed with the Company or that Participating Controlled Group Member, other than Principal Life;
- (b) Participants who were employed with the Company or that Participating Controlled Group Member, other than Principal Life, prior to Separation from Service; and
- (c) Beneficiaries of the Participants described in (a) and (b).

For purposes of this section, employees of Principal Life shall be treated as employees of the Company.

A Participating Controlled Group Member is not responsible for (and has no contractual obligation with respect to) benefits payable to a Participant who is or was employed with the Company or another Participating Controlled Group Member. If a Participant is employed with two or more employers (the Company and a Participating Controlled Group Member, or two or more Participating Controlled Group Members, etc.), either concurrently or at different times, each will be responsible for the Supplemental Benefit that accrued with respect to the period while the Participant was employed with that employer.

The Company will guarantee and assume secondary liability for the contractual commitment of each Participating Controlled Group Member, other than Principal Life, under this section. Principal Life will guarantee and assume secondary liability for the contractual commitment of the Company and each Participating Controlled Group Member.

In the event an employer ceases to be a Controlled Group Member with respect to the Company by reason of a stock sale, merger or similar corporate transaction involving an unrelated third party, the contractual obligation and liability for benefits that rested with such employer prior to the transaction will be retained by such employer (or its successor in interest) after it ceases to be a Controlled Group Member, unless the employer transfers such contractual obligation and liability with the consent of the affected Participant. For any Participant who remains employed with an employer after it ceases to be a Controlled Group Member by reason of a sale of stock of such employer or its direct or indirect parent company, or similar corporate transaction, a Separation from Service will not have occurred solely as a result of such transaction

In the event of a sale of substantial assets (such as a location or division, or substantially all assets of a trade or business) of the Company or a Controlled Group Member to an unrelated buyer, the Company or Controlled Group Member and the buyer may, with the consent of the Participant, agree to transfer the contractual obligation and liability for benefits with respect to any Participant who becomes an employee of the buyer or an affiliate of the buyer upon the closing or in connection with such transaction. In such case, if agreed to by both the Company or Controlled Group Member and the buyer, the transaction will not be deemed to

constitute a Separation from Service and benefits thereafter will be paid in accordance with the terms of the Plan or a successor plan established by the buyer or an affiliate in a manner consistent with Code § 409A.

SECTION 9.02 — FUNDING.

The Company has established a “rabbi” trust to serve as a funding vehicle for benefits payable under the Plan. However, neither the Company nor any Controlled Group Member will have any obligation to fund such trust.

Neither the Company nor any Controlled Group Member will transfer or contribute any funds to any rabbi trust during any “restricted period,” as defined in Code § 409A(b)(3)(B). If any funds are transferred or contributed during a restricted period and the Administrator certifies in writing that such transfer or contribution was disallowed under this provision, the funds will be deemed to have been transferred or contributed under a mistake of fact and will be returned to the Company or the Controlled Group Member, along with any earnings allocable to such funds, regardless of whether the rabbi trust’s terms establish it as revocable or irrevocable. Further, the assets of any rabbi trust hereby established will not be held or transferred outside of the United States, and the trust will not have any other feature that would result in a transfer of property being deemed to have occurred under Code § 409A (for example, there will be no funding obligation or restrictions on assets in connection with a change in financial health of the Company or any Controlled Group Member).

The establishment and funding of the rabbi trust will not affect the contractual obligations of the Company and Participating Controlled Group Members under the CONTRACTUAL OBLIGATIONS SECTION of this Article, except that such obligations with respect to any Participant or Beneficiary will be offset to the extent that payments are actually made from the trust to such Participant or Beneficiary. In the case of any transfer of contractual obligations outside of the Controlled Group Members (including by sale of the stock of a Controlled Group Member such that it no longer remains such) under the CONTRACTUAL OBLIGATIONS SECTION of this Article, the parties may arrange for a transfer of assets to a rabbi trust maintained by the buyer or an affiliate of the buyer.

Any rabbi trust used to fund benefits payable under this Plan may be used to fund benefits payable under any other non-qualified deferred compensation plan maintained by the Company or a Participating Controlled Group Member, whether existing or established in the future.

ARTICLE X

GENERAL PROVISIONS

SECTION 10.01 — AMENDMENT AND TERMINATION.

The Company has the right to amend this Plan. A Participating Controlled Group Member does not have the right to amend the Plan. The Plan can be amended or terminated at any time and for any reason by action of the following:

- (a) The Board or the Human Resources Committee of the Board may terminate the Plan or adopt any amendment to the Plan, and any amendment that has a material negative cost effect on the Company is reserved to the Board or its Human Resources Committee.
- (b) Appropriate officers of Principal Life are authorized to make amendments to the Plan on an ongoing basis as they deem advisable to facilitate the administration of the Plan without substantially altering the level of benefits provided or the cost of the Plan to the Company, or to conform the Plan to applicable laws or regulations; provided such amendments are reviewed by the Corporate Management Committee.

No action by any person, body or committee with amendment authority will constitute an amendment to the Plan unless it is expressly designated as an amendment to the Plan or except as provided in the MODIFICATION BY EMPLOYMENT OR SIMILAR AGREEMENT SECTION of this Article.

The Board, Human Resources Committee, or the appropriate officers of Principal Life generally will determine the effective date of any amendment or termination of the Plan. However, if Code § 409A requires a delayed

effective date (for example, if an amendment changes a deferral rule in a way that must be delayed for twelve (12) months), then the amendment will be effective as of the later of the date determined by the Board, Human Resources Committee, or the appropriate officers of Principal Life; or the earliest effective date allowed under Code § 409A.

The Plan may not be amended in a manner that has the effect of reducing the balance or vested percentage of any Participant's or Beneficiary's benefits. This will not prohibit an amendment that reduces or eliminates the benefit accrued and payable under this Plan and shifts the liability for such benefit to another nonqualified retirement plan maintained by the Company or a Controlled Group Member, or any successor, or an amendment that is required by law or for which the failure to adopt the amendment would have adverse tax consequences to the Participants affected by such amendment (as determined by the Administrator).

The Board or the Human Resources Committee may terminate the Plan and provide for the acceleration and liquidation of all benefits remaining due under the Plan pursuant to Treas. Reg. Section 1.409A-3(j)(4)(ix). If such a termination and liquidation occurs, all accruals under the Plan will be discontinued (and all Active Participants will cease to be Active Participants) as of the termination date established by the Board or Human Resources Committee, and benefits remaining due will be paid in a lump-sum at the time specified by the Board or Human Resources Committee as part of the action terminating the Plan and consistent with Treas. Reg. § 1.409A-3(j)(4)(ix). The Board or Human Resources Committee also may terminate the Plan other than pursuant to Treas. Reg. § 1.409A-3(j)(4)(ix). In the event of such other termination, all accruals under the Plan will be discontinued (and all Active Participants will cease to be Active Participants) as of the end of the Plan Year, but all benefits remaining payable under the Plan will be paid at the same time and in the same form as if the termination had not occurred – that is, the termination will not result in any acceleration of any distribution under the Plan.

SECTION 10.02 — MODIFICATION BY EMPLOYMENT OR SIMILAR AGREEMENT.

The Company or a Participating Controlled Group Member may be a party to an employment or similar agreement with a Participant, the terms of which may enhance or modify in some respect the benefits provided under this Plan, including, but not necessarily limited to, an enhancement to or modification of the benefit amount, payment forms and/or other rights and features of the Plan. The Plan consists only of this document and other documents contemplated under this document, but not including such employment or similar agreement. Accordingly, any contractual rights that a Participant may have to any enhancement or modification called for under an employment or similar agreement are rights that derive from such agreement and not directly from the Plan. Nonetheless, the Plan will be applied in a manner that takes into account any enhancements or modifications called for under an enforceable employment or similar agreement as if such provisions were part of the Plan; *provided that*, no change can be made to the Plan by means of an employment or similar agreement that would not have been allowed by means of an amendment to the Plan (for example, an amendment inconsistent with Code § 409A).

SECTION 10.03 — EMPLOYMENT STATUS.

Nothing contained in this Plan gives an Employee in the Eligible Group the right to be retained in the Company's or Controlled Group Member's employ or to interfere with the Company's or Controlled Group Member's right to discharge any Employee.

SECTION 10.04 — RIGHTS TO PLAN ASSETS; TAX CONSEQUENCES.

Neither the Company nor any Controlled Group Member will have any obligation whatsoever to set aside funds for the Plan or for the benefit of any Participant or Beneficiary, and no Participant or Beneficiary will have any rights to any amounts that may be set aside other than the rights of an unsecured general creditor of the Company or Controlled Group Member that employs (or employed) the Participant.

Neither the Company nor any Controlled Group Member is making any representations or promises as to the tax consequences of participation in the Plan. Each Participant (and Beneficiary) shall be solely responsible for such consequences.

SECTION 10.05 — BENEFICIARIES.

A Participant may designate any person (natural or otherwise, including a trust) as his Beneficiary to receive the survivor benefit (if any) payable when he/she dies, and may change or revoke a designation previously made without the consent of any Beneficiary. If a Beneficiary designation is not on file, or if no designated Beneficiary survives the Participant, the Beneficiary will be the person designated by the Participant under the Associated Plan or, in the absence of a designation, the default Beneficiary under the Associated Plan. If a primary Beneficiary becomes entitled to a survivor benefit upon the death of a Participant but dies prior to complete distribution of such benefit, the remaining benefit will be paid to any contingent Beneficiary designated by the Participant, or if there is no surviving contingent Beneficiary, the remaining benefit will be paid to the estate of the primary Beneficiary.

A Beneficiary designation must be made on such form and in accordance with such rules as may be prescribed for this purpose by the Administrator. A Beneficiary designation will be effective (and will revoke all prior designations) if it is received by the Administrator (or if sent by mail, the post-mark of the mailing is) prior to the date of death of the Participant.

SECTION 10.06 — STATEMENTS.

The Administrator may cause benefit statements to be issued from time to time advising Participants and Beneficiaries of the balance and/or investment of their Accounts, but it is not required to issue benefits statements.

The Administrator may correct errors that appear on benefit statements at any time, and the issuance of a benefit statement (and any errors that may appear on a statement) will not in any way alter or affect the rights of a Participant or Beneficiary with respect to the Plan. Each Participant or Beneficiary has a duty to promptly review each benefit statement and to notify the Administrator of any error that appears on such statement within a reasonable period of time after such statement is provided or made available to the Participant or Beneficiary (for example, the date the statement is sent by mail, or the date the statement is provided or made available electronically). If a Participant or Beneficiary fails to review a benefit statement or fails to notify the Administrator of any error that appears on such statement within such reasonable period of time, he will not be able to bring any claim seeking relief or damages based on the error.

SECTION 10.07 — NONALIENATION OF BENEFITS.

Benefits payable under the Plan are not subject to the claims of any creditor of any Participant or Beneficiary. A Participant or Beneficiary does not have any rights to alienate, anticipate, commute, pledge, encumber or assign any of such benefits. The preceding sentences will also apply to the creation, assignment, or recognition of a right to any benefit payable with respect to a Participant according to a domestic relations order, except as provided in the DISTRIBUTION PURSUANT TO DOMESTIC RELATIONS ORDER SECTION of Article VII.

SECTION 10.08 — CONSTRUCTION.

The validity of the Plan or any of its provisions is determined under and construed according to Federal law and, to the extent permissible, according to the laws of the state in which the Company has its principal office. In case any provision of this Plan is held illegal or invalid for any reason, such determination will not affect the remaining provisions of this Plan, and the Plan will be construed and enforced as if the illegal or invalid provision had never been included.

In the event of any conflict between the provisions of the Plan and the terms of any contract or policy issued hereunder, the provisions of the Plan control the operation and administration of the Plan.

SECTION 10.09 — WORD USAGE.

The masculine gender, where used in this Plan, will include the feminine gender and the singular words as used in this Plan may include the plural, unless the context indicates otherwise.

This Amended and Restated Principal Financial Group Nonqualified Defined Benefit Plan for Employees is executed this 20th day of December 2018.

PRINCIPAL FINANCIAL GROUP, INC.

By: _____ /s/ Tammy DeHaai
Tammy DeHaai
Vice President, Human Resources

ATTACHMENT A

PARTICIPATING CONTROLLED GROUP MEMBERS

Principal International, Inc.	May 25, 1990
Delaware Charter Guarantee & Trust Company	January 1, 1995
Principal Life Insurance Company	Since inception

Nonqualified Defined Benefit Plan for Employees

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1/1/2019

Principal Financial Group, Inc. Member Companies
December 31, 2019

Corporation	State or Country of Domicile
Administradora de Fondos de Pensiones Cuprum S.A.	Chile
Benelux Industrial Partnership General Partner B.V.	Netherlands
Brasilprev Seguros e Previdencia S.A.	Brazil
CCB Principal Asset Management Co., Ltd.	China
CCI Capital Partners, LLC	Delaware
CCIP, LLC	Delaware
Ciclic Corretora de Seguros S.A.	Brazil
CIMB Wealth Advisors Berhad	Malaysia
Claritas Administração de Recursos Ltda.	Brazil
Claritas Investments Ltd.	Cayman Islands
Columbus Circle Investors	Delaware
Delaware Charter Guarantee & Trust Company	Delaware
Diversified Dental Services, Inc.	Nevada
Employers Dental Services, Inc.	Arizona
Equity FC, Ltd.	Iowa
Finisterre Capital LLP	United Kingdom
Finisterre Capital UK Limited	United Kingdom
Finisterre Holdings Limited	Malta
Finisterre Malta Limited	Malta
Finisterre USA, Inc.	Delaware
First Dental Health	California
GAVI PREHC HC, LLC	Delaware
GAVI PREPI HC, LLC	Delaware
Hipotecaria Security Principal, S.A.	Chile
INTERNOS Real Estate Limited	United Kingdom
Inversiones Cuprum Internacional S.A.	Chile
Liongate Capital Management (Cayman) Limited	Cayman Islands
Liongate Capital Management LLP	United Kingdom
Liongate Limited	Malta
Origin Asset Management LLP	United Kingdom
Petula Associates, LLC	Iowa
Petula Prolix Development Company, LLC	Iowa
PFG Do Brasil 2 Participacoes Ltda	Brazil
PFG Do Brasil LTDA	Brazil
PGI Finisterre Holding Company Ltd.	United Kingdom
PGI Origin Holding Company Ltd.	United Kingdom
Post Advisory Group, LLC	Delaware
Preferred Product Network, Inc.	Delaware
Principal Administradora General de Fondos S.A.	Chile
Principal Advised Services, LLC	Delaware
Principal Afore, S.A. de C.V., Principal Grupo Financiero	Mexico
Principal Ahorro e Inversiones S.A.	Chile
Principal Asia Pacific Investment Consulting (Beijing) Limited	China
Principal Asset Management Berhad	Malaysia
Principal Asset Management Company (Asia) Limited	Hong Kong
Principal Asset Management Company Limited	Thailand
Principal Asset Management Private Limited	India
Principal Asset Management (S) Pte. Ltd	Singapore
Principal Bank	Iowa
Principal Chile Limitada	Chile
Principal Commercial Acceptance, LLC	Delaware

Principal Commercial Funding, LLC	Delaware
Principal Compañía de Seguros de Vida Chile S.A.	Chile
Principal Consulting (India) Private Limited	India
Principal Corporate Secretarial Services Limited	United Kingdom
Principal Dental Services, Inc.	Arizona
Principal Development Investors, L.L.C.	Delaware
Principal Enterprise Capital, LLC	Delaware
Principal Enterprise Services (India) LLP	India
Principal Financial Advisors, Inc.	Iowa
Principal Financial Group, Inc.	Delaware
Principal Financial Group (Mauritius) Ltd.	Mauritius
Principal Financial Group, S.A. de C.V., Grupo Financiero	Mexico
Principal Financial Services Asia (UK) Ltd	United Kingdom
Principal Financial Services I (UK) LLP	United Kingdom
Principal Financial Services I (US), LLC	Delaware
Principal Financial Services II (UK) Ltd.	United Kingdom
Principal Financial Services II (US), LLC	Delaware
Principal Financial Services III (UK) Ltd.	United Kingdom
Principal Financial Services IV (UK) LLP	United Kingdom
Principal Financial Services Latin America Ltd.	United Kingdom
Principal Financial Services V (UK) Ltd.	United Kingdom
Principal Financial Services VI (UK) Ltd	United Kingdom
Principal Financial Services, Inc.	Iowa
Principal Fondos de Inversión, S.A. de C.V., Operadora de Fondos de Inversión, Principal Grupo Financiero	Mexico
Principal Funds Distributor, Inc.	Washington
Principal Generation Plant, LLC	Delaware
Principal Global Columbus Circle, LLC	Delaware
Principal Global Financial Services (Europe) II Ltd	United Kingdom
Principal Global Financial Services (Europe) Ltd	United Kingdom
Principal Global Investors Asia (UK) Ltd	United Kingdom
Principal Global Investors (Australia) Limited	Australia
Principal Global Investors (Australia) Service Company Pty Ltd	Australia
Principal Global Investors (EU) Limited	Ireland
Principal Global Investors (Europe) Limited	United Kingdom
Principal Global Investors (Hong Kong) Limited	Hong Kong
Principal Global Investors (Ireland) Limited	Ireland
Principal Global Investors (Japan) Ltd.	Japan
Principal Global Investors (Singapore) Limited	Singapore
Principal Global Investors (Switzerland) GmbH	Switzerland
Principal Global Investors Holding Company, LLC	Delaware
Principal Global Investors Holding Company (US), LLC	Delaware
Principal Global Investors Participacoes LTDA	Brazil
Principal Global Investors Trust Company	Oregon
Principal Global Investors, LLC	Delaware
Principal Global Services (Philippines) LLC	Delaware
Principal Global Services Private Limited	India
Principal Holding Company Chile S.A.	Chile
Principal Holding Company, LLC	Iowa
Principal Hotel Immobilienfonds II General Partner S.à.r.l.	Luxembourg
Principal Innovations, Inc.	Delaware
Principal Insurance Company (Hong Kong) Limited	Hong Kong
Principal International (Asia) Limited	Hong Kong
Principal International Asia (UK) Ltd	United Kingdom
Principal International (South Asia) Snd. Bhd	Malaysia
Principal International de Chile S.A.	Chile
Principal International Holding Company, LLC	Delaware
Principal International India (UK) Ltd	United Kingdom
Principal International Latin America Ltd.	United Kingdom

Principal International Mexico, LLC	Delaware
Principal International South America I Ltd.	United Kingdom
Principal International South America II Ltd.	United Kingdom
Principal International South America II Ltd., Agencia en Chile	Chile
Principal International, LLC	Iowa
Principal Investment & Retirement Services Limited	Hong Kong
Principal Investors Corporation	New Jersey
Principal Islamic Asset Management Sdn. Bhd.	Malaysia
Principal Life Insurance Company	Iowa
Principal Life Insurance Company of Iowa	Iowa
Principal Mexico Servicios, S.A. de C.V.	Mexico
Principal National Life Insurance Company	Iowa
Principal Nominee Company (Hong Kong) Limited	Hong Kong
Principal Opportunity Fund LP	United Kingdom
Principal Pensiones, S.A. De C.V., Principal Grupo Financiero	Mexico
Principal Real Estate B.V.	Netherlands
Principal Real Estate Europe Limited	United Kingdom
Principal Real Estate Fund Investors, LLC	Delaware
Principal Real Estate GmbH	Germany
Principal Real Estate Holding Company, LLC	Delaware
Principal Real Estate Investors, LLC	Delaware
Principal Real Estate Kapitalverwaltungsgesellschaft mbH	Germany
Principal Real Estate Limited	United Kingdom
Principal Real Estate Portfolio, Inc.	Delaware
Principal Real Estate S.à.r.l.	Luxembourg
Principal Real Estate SAS	France
Principal Real Estate S.L.	Spain
Principal Real Estate Spezialfondsgesellschaft mbH	Germany
Principal Reinsurance Company of Delaware	Delaware
Principal Reinsurance Company of Delaware II	Delaware
Principal Reinsurance Company of Vermont	Vermont
Principal Retirement Advisors Private Limited	India
Principal Securities, Inc.	Iowa
Principal Seguros, S.A. De C.V., Principal Grupo Financiero	Mexico
Principal Servicios Corporativos Chile Ltda.	Chile
Principal Servicios de Administración S.A.	Chile
Principal Shareholder Services, Inc.	Washington
Principal Trust Company (Asia) Limited	Hong Kong
Principal Trust Company (Bermuda) Limited	Bermuda
Principal Trust Company (Hong Kong) Limited	Hong Kong
Principal Trustee Company Private Limited	India
PT Principal Asset Management	Indonesia
RobustWealth, Inc.	Delaware
SAMI Brokerage LLC	Delaware
Spectrum Asset Management, Inc.	Connecticut
Veloxiti Commercial Capital, Inc.	Delaware

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the following registration statements:

- 1) Universal shelf Registration Statement (Form S-3, File No. 333-217624) and related Prospectus of Principal Financial Group, Inc. and Principal Financial Services, Inc. for the registration of an unspecified amount of various securities,
- 2) Registration Statement (Form S-8, File No. 333-143070) pertaining to Principal Financial Group, Inc. 2005 Stock Incentive Plan and Principal Financial Group, Inc. 2005 Directors Stock Plan,
- 3) Registration Statement (Form S-8, File No. 333-201505) pertaining to Principal Financial Group, Inc. 2014 Stock Incentive Plan and Principal Financial Group, Inc. 2014 Directors Stock Plan
- 4) Registration Statement (Form S-8, File No. 333-178510) pertaining to The Principal Select Savings Plan for Individual Field and The Principal Select Savings Plan for Employees, and
- 5) Registration Statement (Form S-8, File No. 333-160232) pertaining to Principal Financial Group, Inc. Employee Stock Purchase Plan;

of our reports dated February 14, 2020, with respect to the consolidated financial statements and schedules of Principal Financial Group, Inc., and the effectiveness of internal control over financial reporting of Principal Financial Group, Inc., included in this Annual Report (Form 10-K) of Principal Financial Group, Inc. for the year ended December 31, 2019.

/s/ Ernst & Young LLP

Des Moines, Iowa
February 14, 2020

CERTIFICATIONS

I, Daniel J. Houston, certify that:

1. I have reviewed this annual report on Form 10-K of Principal Financial Group, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 14, 2020

/s/ Daniel J. Houston

Daniel J. Houston

Chairman, President and Chief Executive Officer

CERTIFICATIONS

I, Deanna D. Strable-Soethout, certify that:

1. I have reviewed this annual report on Form 10-K of Principal Financial Group, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 14, 2020

/s/ Deanna D. Strable-Soethout

Deanna D. Strable-Soethout

Executive Vice President and Chief Financial Officer

**Certification Pursuant to Section 1350 of Chapter 63
of Title 18 of the United States Code**

I, Daniel J. Houston, Chairman, President and Chief Executive Officer of Principal Financial Group, Inc., certify that (i) the Form 10-K for the period ended December 31, 2019, fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934 and (ii) the information contained in the Form 10-K for the period ended December 31, 2019, fairly presents, in all material respects, the financial condition and results of operations of Principal Financial Group, Inc.

/s/ Daniel J. Houston

Daniel J. Houston

Chairman, President and Chief Executive Officer

Date: February 14, 2020

**Certification Pursuant to Section 1350 of Chapter 63
of Title 18 of the United States Code**

I, Deanna D. Strable-Soethout, Executive Vice President and Chief Financial Officer of Principal Financial Group, Inc., certify that (i) the Form 10-K for the period ended December 31, 2019, fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934 and (ii) the information contained in the Form 10-K for the period ended December 31, 2019, fairly presents, in all material respects, the financial condition and results of operations of Principal Financial Group, Inc.

/s/ Deanna D. Strable-Soethout

Deanna D. Strable-Soethout

Executive Vice President and Chief Financial Officer

Date: February 14, 2020
