

ARCH CAPITAL GROUP LTD.  
Form 10-K  
February 27, 2015

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

For the Fiscal Year Ended December 31, 2014  
ARCH CAPITAL GROUP LTD.  
(Exact name of registrant as specified in its charter)  
Bermuda  
(State or other jurisdiction of incorporation or organization)

Commission File No. 0-26456

Not applicable

(I.R.S. Employer Identification No.)

Waterloo House, Ground Floor  
100 Pitts Bay Road, Pembroke HM 08, Bermuda  
(Address of principal executive offices)

(441) 278-9250

(Registrant's telephone number, including area code)

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

Title of each class	Name of each exchange on which registered
Common Shares, \$0.0033 par value per share	NASDAQ Stock Market (Common Shares)
6.75% Non-Cumulative Preferred Shares, Series C, \$0.01 par value per share	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Exchange Act: None

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 Exchange Act 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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files). Yes  No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. Large accelerated Filer  Accelerated Filer  Non-accelerated Filer  Smaller reporting company

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

The aggregate market value of the voting and non-voting common equity held by non-affiliates, computed by reference to the closing price as reported by the NASDAQ Stock Market as of the last business day of the Registrant's most recently completed second fiscal quarter, was approximately \$7.05 billion.

As of February 20, 2015, there were 126,226,689 of the registrant's common shares outstanding.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of Part III and Part IV incorporate by reference our definitive proxy statement for the 2015 annual meeting of shareholders to be filed with the Securities and Exchange Commission pursuant to Regulation 14A before April 30, 2015.

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CAUTIONARY NOTE REGARDING FORWARD LOOKING STATEMENTS

The Private Securities Litigation Reform Act of 1995 (“PSLRA”) provides a “safe harbor” for forward-looking statements. This report or any other written or oral statements made by or on behalf of us may include forward-looking statements, which reflect our current views with respect to future events and financial performance. All statements other than statements of historical fact included in or incorporated by reference in this report are forward-looking statements. Forward-looking statements, for purposes of the PSLRA or otherwise, can generally be identified by the use of forward-looking terminology such as “may,” “will,” “expect,” “intend,” “estimate,” “anticipate,” “believe” or “continue” or similar statements of a future or forward-looking nature or their negative or variations or similar terminology.

Forward-looking statements involve our current assessment of risks and uncertainties. Actual events and results may differ materially from those expressed or implied in these statements. Important factors that could cause actual events or results to differ materially from those indicated in such statements are discussed below, elsewhere in this report and in our periodic reports filed with the Securities and Exchange Commission (“SEC”), and include:

- our ability to successfully implement our business strategy during “soft” as well as “hard” markets;
- acceptance of our business strategy, security and financial condition by rating agencies and regulators, as well as by brokers and our insureds and reinsureds;
- our ability to maintain or improve our ratings, which may be affected by our ability to raise additional equity or debt financings, by ratings agencies’ existing or new policies and practices, as well as other factors described herein;
- general economic and market conditions (including inflation, interest rates, foreign currency exchange rates, prevailing credit terms and the depth and duration of a recession) and conditions specific to the reinsurance and insurance markets (including the length and magnitude of the current “soft” market) in which we operate;
- competition, including increased competition, on the basis of pricing, capacity, coverage terms or other factors;
- developments in the world’s financial and capital markets and our access to such markets;
- our ability to successfully enhance, integrate and maintain operating procedures (including information technology) to effectively support our current and new business;
- the loss of key personnel;
- the integration of businesses we have acquired or may acquire into our existing operations;
- accuracy of those estimates and judgments utilized in the preparation of our financial statements, including those related to revenue recognition, insurance and other reserves, reinsurance recoverables, investment valuations, intangible assets, bad debts, income taxes, contingencies and litigation, and any determination to use the deposit method of accounting, which for a relatively new insurance and reinsurance company, like our company, are even more difficult to make than those made in a mature company since relatively limited historical information has been reported to us through December 31, 2014;
- greater than expected loss ratios on business written by us and adverse development on claim and/or claim expense liabilities related to business written by our insurance and reinsurance subsidiaries;
- severity and/or frequency of losses;
- claims for natural or man-made catastrophic events in our insurance or reinsurance business could cause large losses and substantial volatility in our results of operations;
- acts of terrorism, political unrest and other hostilities or other unforecasted and unpredictable events;
- availability to us of reinsurance to manage our gross and net exposures and the cost of such reinsurance;
- the failure of reinsurers, managing general agents, third party administrators or others to meet their obligations to us;
- the timing of loss payments being faster or the receipt of reinsurance recoverables being slower than anticipated by us;
- our investment performance, including legislative or regulatory developments that may adversely affect the fair value of our investments;
- changes in general economic conditions, including new or continued sovereign debt concerns in Eurozone countries
- or downgrades of U.S. securities by credit rating agencies, which could affect our business, financial condition and results of operations;



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the volatility of our shareholders' equity from foreign currency fluctuations, which could increase due to us not matching portions of our projected liabilities in foreign currencies with investments in the same currencies; losses relating to aviation business and business produced by a certain managing underwriting agency for which we may be liable to the purchaser of our prior reinsurance business or to others in connection with the May 5, 2000 asset sale described in our periodic reports filed with the SEC; changes in accounting principles or policies or in our application of such accounting principles or policies; changes in the political environment of certain countries in which we operate or underwrite business; statutory or regulatory developments, including as to tax policy and matters and insurance and other regulatory matters such as the adoption of proposed legislation that would affect Bermuda-headquartered companies and/or Bermuda-based insurers or reinsurers and/or changes in regulations or tax laws applicable to us, our subsidiaries, brokers or customers; and the other matters set forth under Item 1A "Risk Factors," Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" and other sections of this Annual Report on Form 10-K, as well as the other factors set forth in Arch Capital Group Ltd.'s other documents on file with the SEC, and management's response to any of the aforementioned factors.

All subsequent written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by these cautionary statements. The foregoing review of important factors should not be construed as exhaustive and should be read in conjunction with other cautionary statements that are included herein or elsewhere. We undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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PART I

ITEM 1. BUSINESS

As used in this report, references to “we,” “us,” “our” or the “Company” refer to the consolidated operations of Arch Capital Group Ltd. (“ACGL”) and its subsidiaries. Tabular amounts are in U.S. Dollars in thousands, except share amounts, unless otherwise noted. We refer you to Item 1A “Risk Factors” for a discussion of risk factors relating to our business.

OUR COMPANY

General

Arch Capital Group Ltd. is a Bermuda public limited liability company with \$7.03 billion in capital at December 31, 2014 and, through operations in Bermuda, the United States, Europe and Canada, writes insurance and reinsurance on a worldwide basis. While we are positioned to provide a full range of property, casualty and mortgage insurance and reinsurance lines, we focus on writing specialty lines of insurance and reinsurance. For 2014, we wrote \$3.62 billion of net premiums and reported net income available to Arch common shareholders of \$812.4 million. Book value per common share was \$45.58 at December 31, 2014, compared to \$39.82 per share at December 31, 2013.

ACGL’s registered office is located at Clarendon House, 2 Church Street, Hamilton HM 11, Bermuda (telephone number: (441) 295-1422), and its principal executive offices are located at Waterloo House, Ground Floor, 100 Pitts Bay Road, Pembroke HM 08, Bermuda (telephone number: (441) 278-9250). ACGL makes available free of charge through its website, located at [www.archcapgroup.com](http://www.archcapgroup.com), its annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and all amendments to those reports as soon as reasonably practicable after such material is electronically filed with, or furnished to, the SEC. The public may read and copy any materials ACGL files with the SEC at the SEC’s Public Reference Room at 100 F Street, NE, Washington, D.C. 20549. The public may obtain information on the operation of the Public Reference Room by calling 1-800-SEC-0330. The SEC also maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC (such as ACGL) and the address of that site is [www.sec.gov](http://www.sec.gov).

Our History

Our current operations were built on an existing underwriting platform through an underwriting initiative in October 2001 to meet current and future demand in the global insurance and reinsurance markets. Since that time, we have attracted a proven management team with extensive industry experience and enhanced our existing global underwriting platform for our insurance and reinsurance businesses. It is our belief that our underwriting platform, our experienced management team and our strong capital base that is unencumbered by significant pre-2002 risks have enabled us to establish a strong presence in the insurance and reinsurance markets.

Prior to the 2001 underwriting initiative, our insurance underwriting platform consisted of Arch Insurance (Bermuda), a division of Arch Reinsurance Ltd. (“Arch Re Bermuda”), our Bermuda-based reinsurer and insurer, and our U.S.-licensed insurers, Arch Insurance Company (“Arch Insurance”), Arch Excess & Surplus Insurance Company (“Arch E&S”), Arch Specialty Insurance Company (“Arch Specialty”) and Arch Indemnity Insurance Company (“Arch Indemnity”). We established Arch Insurance Company (Europe) Limited (“Arch Insurance Company Europe”), our United Kingdom-based subsidiary, in 2004, and we expanded our North American presence when Arch Insurance opened a branch office in Canada in 2005. In January 2013, Arch Insurance Canada Ltd. (“Arch Insurance Canada”), a Canada domestic company, commenced operations and replaced the branch office. In 2009, we established a managing agent and syndicate 2012 (“Arch Syndicate 2012”) at Lloyd’s of London (“Lloyd’s”). See “Operations—Insurance Operations” for further details on our insurance operations.

Prior to the 2001 underwriting initiative, our reinsurance underwriting platform consisted of Arch Re Bermuda and Arch Reinsurance Company (“Arch Re U.S.”), our U.S.-licensed reinsurer. Our reinsurance operations in Europe began in November 2006 with the formation of a Swiss branch of Arch Re Bermuda, and the formation of a Danish underwriting agency in 2007. In addition to the U.S. reinsurance activities of Arch Re U.S., we launched our property facultative reinsurance underwriting operations in 2007, which underwrite in the U.S., Canada and Europe. We formed Arch Reinsurance Europe Underwriting Limited (“Arch Re Europe”), our Ireland-based reinsurance company, in 2008. In 2011, we launched treaty operations in Canada through the Canadian branch of Arch Insurance and subsequently through Arch Insurance Canada. Effective January 1, 2015, Canadian reinsurance business is written through the Canadian branch of





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Arch Re U.S. (“Arch Re Canada”). We acquired the credit and surety reinsurance operations of Ariel Reinsurance Company Ltd. (“Ariel Re”) in April 2012. See “Operations—Reinsurance Operations” for further details on our reinsurance operations.

Our mortgage group includes direct mortgage insurance in the United States; mortgage reinsurance provided primarily by Arch Re Bermuda to mortgage insurers on both a proportional and non-proportional basis globally; direct mortgage insurance in Europe; and various risk-sharing products provided primarily by Arch Re Bermuda to government agencies and mortgage lenders. In 2011, we formed Arch Mortgage Insurance Limited (“Arch MI Europe”), which is authorized to underwrite mortgage insurance from its base in Ireland. On January 30, 2014, we completed the acquisition of CMG Mortgage Insurance Company from its owners, PMI Mortgage Insurance Co., in Rehabilitation (“PMI”) and CMFG Life Insurance Company (“CUNA Mutual”) and acquired PMI’s mortgage insurance platform and related assets. CMG Mortgage Insurance Company, renamed “Arch Mortgage Insurance Company” (“Arch MI U.S.”), was approved as an eligible mortgage insurer by Federal National Mortgage Association (“Fannie Mae”) and Federal Home Loan Mortgage Corporation (“Freddie Mac”), each a government sponsored enterprise (or “GSE”), and entered the U.S. mortgage insurance marketplace in 2014. Beginning in 2015, our mortgage group will also offer direct mortgage insurance in the United States through an affiliate of Arch MI U.S., Arch Mortgage Guaranty Company (“Arch Mortgage Guaranty”). See “Operations—Mortgage Operations” for further details on our mortgage operations.

On March 20, 2014, we acquired approximately 11% of Watford Holdings Ltd.’s common equity and a warrant to purchase additional common equity for \$100 million. Watford Holdings Ltd. is the parent of Watford Re Ltd., a newly-formed multi-line Bermuda reinsurance company (together with Watford Holdings Ltd., “Watford Re”). Watford Re raised approximately \$1.1 billion of capital. We serve as Watford Re’s reinsurance underwriting manager and Highbridge Principal Strategies, LLC (“Highbridge”), a subsidiary of JPMorgan Chase & Co., manages Watford Re’s investment assets, each under separate long term services agreements. The results of Watford Re are included in our consolidated financial statements. See “Operations—Other Operations” for further details on Watford Re.

The growth of our insurance and reinsurance platforms was supported through the net proceeds of: (1) an equity capital infusion of \$763 million led by funds affiliated with Warburg Pincus LLC and Hellman & Friedman LLC in late 2001; (2) a public offering of 7.5 million of our common shares with net proceeds of \$179 million in April 2002; (3) the exercise of class A warrants by our principal shareholders and other investors in September 2002, which provided net proceeds of \$74 million; (4) a March 2004 public offering of 4.7 million of our common shares with net proceeds of \$179 million; (5) a May 2004 public offering of \$300 million principal amount of our 7.35% senior notes due May 2034; (6) a February 2006 public offering of \$200 million of our 8.00% series A non-cumulative preferred shares; (7) a May 2006 public offering of \$125 million of our 7.875% series B non-cumulative preferred shares; (8) an April 2012 public offering of \$325 million of our 6.75% series C non-cumulative preferred shares which was used to redeem all series A and series B preferred shares; and (9) a December 2013 public offering of \$500 million principal amount of 5.144% senior notes due November 1, 2043 by Arch Capital Group (U.S.) Inc. (“Arch-U.S.”), a wholly owned subsidiary of ACGL, and fully and unconditionally guaranteed by ACGL.

The board of directors of ACGL has authorized the investment in ACGL’s common shares through a share repurchase program. Repurchases under the share repurchase program may be effected from time to time in open market or privately negotiated transactions. Since the inception of the share repurchase program in February 2007 through December 31, 2014, ACGL has repurchased 118.1 million common shares for an aggregate purchase price of \$3.24 billion. At December 31, 2014, the total remaining authorization under the share repurchase program was \$887.1 million.

### Operations

We classify our businesses into three underwriting segments — insurance, reinsurance and mortgage — and two other operating segments — ‘other’ and corporate (non-underwriting). For an analysis of our underwriting results by segment, see note 5, “Segment Information,” of the notes accompanying our consolidated financial statements and “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations.”



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### Insurance Operations

Our insurance operations are conducted in Bermuda, the United States, Europe, Canada, Australia and South Africa. Our insurance operations in Bermuda are conducted through Arch Insurance (Bermuda), a division of Arch Re Bermuda. In the U.S., our insurance group's principal insurance subsidiaries are Arch Insurance, Arch Specialty, Arch Indemnity and Arch E&S. Arch Insurance is an admitted insurer in 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands and Guam. Arch Specialty is an approved excess and surplus lines insurer in 49 states, the District of Columbia, Puerto Rico and the U.S. Virgin Islands and an admitted insurer in one state. Arch Indemnity is an admitted insurer in 49 states and the District of Columbia. Arch E&S, which is not currently writing business, is an approved excess and surplus lines insurer in 47 states and the District of Columbia and an admitted insurer in one state. Arch Insurance operated a branch office in Canada through January 1, 2013, at which point its operations were assumed by Arch Insurance Canada. Arch Insurance Canada is a Canada domestic company which is authorized in all Canadian provinces and territories. The headquarters for our insurance group's U.S. support operations (excluding underwriting units) is in Jersey City, New Jersey. The insurance group has additional offices throughout the U.S., including four regional offices located in Alpharetta, Georgia, Chicago, Illinois, New York, New York and San Francisco, California. Arch Insurance Canada is headquartered in Toronto, Ontario with other regional offices in Canada.

Our insurance group's European operations are conducted on two platforms: Arch Insurance Company Europe and Arch Syndicate 2012 (the U.K. insurance operations are collectively referred to as "Arch Insurance Europe"). Arch Insurance Europe conducts its operations from London. Arch Insurance Company Europe is approved as an excess and surplus lines insurer in 27 states and the District of Columbia and also has branches in Denmark, Germany, Italy and Spain. Arch Underwriting at Lloyd's Ltd ("AUAL") is the managing agent of Arch Syndicate 2012 and is responsible for the daily management of Arch Syndicate 2012. Arch Syndicate 2012 has enhanced our underwriting platform by providing us with access to Lloyd's extensive distribution network and worldwide licenses. Arch Underwriting at Lloyd's (Australia) Pty Ltd, based in Sydney, Australia, and Arch Underwriting Managers at Lloyd's (South Africa) (Pty) Limited, based in Johannesburg, South Africa, are Lloyd's services companies which underwrite exclusively for Arch Syndicate 2012.

As of February 20, 2015, our insurance group had approximately 1,240 employees.

**Strategy.** Our insurance group's strategy is to operate in lines of business in which underwriting expertise can make a meaningful difference in operating results. The insurance group focuses on talent-intensive rather than labor-intensive business and seeks to operate profitably (on both a gross and net basis) across all of its product lines. To achieve these objectives, our insurance group's operating principles are to:

**Capitalize on profitable underwriting opportunities.** Our insurance group believes that its experienced management and underwriting teams are positioned to locate and identify business with attractive risk/reward characteristics. As profitable underwriting opportunities are identified, our insurance group will continue to seek to make additions to its product portfolio in order to take advantage of market trends. This may include adding underwriting and other professionals with specific expertise in specialty lines of insurance.

**Centralize responsibility for underwriting.** Our insurance group consists of a range of product lines. The underwriting executive in charge of each product line oversees all aspects of the underwriting product development process within such product line. Our insurance group believes that centralizing the control of such product line with the respective underwriting executive allows for close management of underwriting and creates clear accountability for results. Our U.S. insurance group has four regional offices, and the executive in charge of each region is primarily responsible for all aspects of the marketing and distribution of our insurance group's products, including the management of broker and other producer relationships in such executive's respective region. In our non-U.S. offices, a similar philosophy is observed, with responsibility for the management of each product line residing with the senior underwriting executive in charge of such product line.

**Maintain a disciplined underwriting philosophy.** Our insurance group's underwriting philosophy is to generate an underwriting profit through prudent risk selection and proper pricing. Our insurance group believes that the key to this approach is adherence to uniform underwriting standards across all types of business. Our insurance group's senior management closely monitors the underwriting process.

Focus on providing superior claims management. Our insurance group believes that claims handling is an integral component of credibility in the market for insurance products. Therefore, our insurance group believes that its ability to handle claims expeditiously and satisfactorily is a key to its success. Our insurance group

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employs experienced claims professionals and also utilizes experienced external claims managers (third party administrators) where appropriate.

Utilize a brokerage distribution system. Our insurance group believes that by utilizing a brokerage distribution system, consisting of select international, national and regional brokers, both wholesale and retail, it can efficiently access a broad customer base while maintaining underwriting control and discipline.

Our insurance group writes business on both an admitted and non-admitted basis. Our insurance group focuses on the following areas:

**Construction and national accounts:** primary and excess casualty coverages to middle and large accounts in the construction industry and a wide range of products for middle and large national accounts, specializing in loss sensitive primary casualty insurance programs (including large deductible, self-insured retention and retrospectively rated programs).

**Excess and surplus casualty:** primary and excess casualty insurance coverages, including middle market energy business, and contract binding, which primarily provides casualty coverage through a network of appointed agents to small and medium risks.

**Lenders products:** collateral protection, debt cancellation and service contract reimbursement products to banks, credit unions, automotive dealerships and original equipment manufacturers and other specialty programs that pertain to automotive lending and leasing.

**Professional lines:** directors' and officers' liability, errors and omissions liability, employment practices liability, fiduciary liability, crime, professional indemnity and other financial related coverages for corporate, private equity, venture capital, real estate investment trust, limited partnership, financial institution and not-for-profit clients of all sizes and medical professional and general liability insurance coverages for the healthcare industry. The business is predominately written on a claims-made basis.

**Programs:** primarily package policies, underwriting workers' compensation and umbrella liability business in support of desirable package programs, targeting program managers with unique expertise and niche products offering general liability, commercial automobile, inland marine and property business with minimal catastrophe exposure.

**Property, energy, marine and aviation:** primary and excess general property insurance coverages, including catastrophe-exposed property coverage, for commercial clients. Coverages for marine include hull, war, specie and liability. Aviation and stand alone terrorism are also offered.

**Travel, accident and health:** specialty travel and accident and related insurance products for individual, group travelers, travel agents and suppliers, as well as accident and health, which provides accident, disability and medical plan insurance coverages for employer groups, medical plan members, students and other participant groups.

**Other:** includes alternative market risks (including captive insurance programs), excess workers' compensation and employer's liability insurance coverages for qualified self-insured groups, associations and trusts, and contract and commercial surety coverages, including contract bonds (payment and performance bonds) primarily for medium and large contractors and commercial surety bonds for Fortune 1,000 companies and smaller transaction business programs.

**Underwriting Philosophy.** Our insurance group's underwriting philosophy is to generate an underwriting profit (on both a gross and net basis) through prudent risk selection and proper pricing across all types of business. One key to this philosophy is the adherence to uniform underwriting standards across each product line that focuses on the following:

• risk selection;

• desired attachment point;

• limits and retention management;

• due diligence, including financial condition, claims history, management, and product, class and territorial exposure;

• underwriting authority and appropriate approvals; and

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collaborative decision making.

Premiums Written and Geographic Distribution. Set forth below is summary information regarding net premiums written for our insurance group:

INSURANCE SEGMENT	Year Ended December 31, 2014		2013		2012	
	Amount	% of Total	Amount	% of Total	Amount	% of Total
Net premiums written						
Programs	\$480,580	22	\$419,673	22	\$340,130	19
Professional lines	476,604	22	476,193	25	548,423	30
Construction and national accounts	286,994	13	271,110	14	211,130	12
Property, energy, marine and aviation	244,640	11	280,551	14	294,690	16
Excess and surplus casualty	212,519	10	149,286	8	112,307	6
Travel, accident and health	145,732	7	104,903	5	106,871	6
Lenders products	100,407	6	101,576	5	99,724	5
Other	199,178	9	145,504	7	112,059	6
Total	\$2,146,654	100	\$1,948,796	100	\$1,825,334	100
Net premiums written by client location						
United States	\$1,726,181	80	\$1,526,156	78	\$1,314,577	72
Europe	240,136	11	226,254	12	271,278	15
Asia and Pacific	79,564	4	95,970	5	120,492	7
Other	100,773	5	100,416	5	118,987	6
Total	\$2,146,654	100	\$1,948,796	100	\$1,825,334	100
Net premiums written by underwriting location						
United States	\$1,688,887	79	\$1,478,930	76	\$1,254,623	69
Europe	394,430	18	389,763	20	472,132	26
Other	63,337	3	80,103	4	98,579	5
Total	\$2,146,654	100	\$1,948,796	100	\$1,825,334	100

Marketing. Our insurance group's products are marketed principally through a group of licensed independent retail and wholesale brokers. Clients (insureds) are referred to our insurance group through a large number of international, national and regional brokers and captive managers who receive from the insured or insurer a set fee or brokerage commission usually equal to a percentage of gross premiums. In the past, our insurance group also entered into contingent commission arrangements with some brokers that provide for the payment of additional commissions based on volume or profitability of business. Currently, some of our contracts with brokers provide for additional commissions based on volume. We have also entered into service agreements with select international brokers that provide access to their proprietary industry analytics. In general, our insurance group has no implied or explicit commitments to accept business from any particular broker and neither brokers nor any other third parties have the authority to bind our insurance group, except in the case where underwriting authority may be delegated contractually to select program administrators. Such administrators are subject to a due diligence financial and operational review prior to any such delegation of authority and ongoing reviews and audits are carried out as deemed necessary by our insurance group to assure the continuing integrity of underwriting and related business operations. See "Risk Factors—Risks Relating to Our Company—We could be materially adversely affected to the extent that managing general agents, general agents and other producers exceed their underwriting authorities or if our agents, our insureds or other third parties commit fraud or otherwise breach obligations owed to us." For information on major brokers, see note 16, "Commitments and Contingencies—Concentrations of Credit Risk," of the notes accompanying our consolidated financial statements.

Risk Management and Reinsurance. In the normal course of business, our insurance group may cede a portion of its premium on a quota share or excess of loss basis through treaty or facultative reinsurance agreements. Reinsurance arrangements do not relieve our insurance group from its primary obligations to insureds. Reinsurance recoverables are recorded as assets, predicated on the reinsurers' ability to meet their obligations under the reinsurance agreements. If the reinsurers are unable to satisfy their obligations under the agreements, our insurance subsidiaries would be liable for such defaulted amounts. Our principal insurance subsidiaries, with oversight by a group-wide reinsurance steering committee ("RSC"), are selective with regard to reinsurers, seeking to place reinsurance with only those reinsurers which meet and

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maintain specific standards of established criteria for financial strength. The RSC evaluates the financial viability of its reinsurers through financial analysis, research and review of rating agencies' reports and also monitors reinsurance recoverables and collateral with unauthorized reinsurers. The financial analysis includes ongoing qualitative and quantitative assessments of reinsurers, including a review of the financial stability, appropriate licensing, reputation, claims paying ability and underwriting philosophy of each reinsurer. Our insurance group will continue to evaluate its reinsurance requirements. See note 7, "Reinsurance," of the notes accompanying our consolidated financial statements. For catastrophe-exposed insurance business, our insurance group seeks to limit the amount of exposure to catastrophic losses it assumes through a combination of managing aggregate limits, underwriting guidelines and reinsurance. For a discussion of our risk management policies, see "Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies, Estimates and Recent Accounting Pronouncements—Ceded Reinsurance" and "Risk Factors—Risks Relating to Our Industry—The failure of any of the loss limitation methods we employ could have a material adverse effect on our financial condition or results of operations."

Claims Management. Our insurance group's claims management function is performed by claims professionals, as well as experienced external claims managers (third party administrators), where appropriate. In addition to investigating, evaluating and resolving claims, members of our insurance group's claims departments work with underwriting professionals as functional teams in order to develop products and services desired by the group's clients.

Reinsurance Operations

Our reinsurance operations are conducted on a worldwide basis through our reinsurance subsidiaries, Arch Re Bermuda, Arch Re U.S. and Arch Re Europe. Arch Re Bermuda is a registered Class 4 insurer and long-term insurer and is headquartered in Hamilton, Bermuda. Arch Re U.S. is licensed or is an accredited or otherwise approved reinsurer in 50 states and the District of Columbia and operates out of its office in Morristown, New Jersey. Our property facultative reinsurance operations are conducted primarily through Arch Re U.S. with certain executive functions conducted through Arch Re Facultative Underwriters Inc. located in Farmington, Connecticut. The property facultative reinsurance operations have offices throughout the U.S., Canada and in Europe. Arch Re Europe, licensed and authorized as a non-life reinsurer and a life reinsurer, is headquartered in Dublin, Ireland with branch offices in Zurich and London. In 2011, we formed Arch MI Europe, which was authorized as a non-life insurer in Ireland in December 2011. Our reinsurance operations acquired the credit and surety reinsurance operations of Ariel Re based in Zurich, Switzerland in April 2012. Treaty operations in Canada commenced in 2011 and, effective January 1, 2015, is written through Arch Re Canada, the Canadian branch of Arch Re U.S.

As of February 20, 2015, our reinsurance group had approximately 250 employees.

Strategy. Our reinsurance group's strategy is to capitalize on our financial capacity, experienced management and operational flexibility to offer multiple products through our operations. The reinsurance group's operating principles are to:

- Actively select and manage risks. Our reinsurance group only underwrites business that meets certain profitability criteria, and it emphasizes disciplined underwriting over premium growth. To this end, our reinsurance group maintains centralized control over reinsurance underwriting guidelines and authorities.
- Maintain flexibility and respond to changing market conditions. Our reinsurance group's organizational structure and philosophy allows it to take advantage of increases or changes in demand or favorable pricing trends. Our reinsurance group believes that its existing platforms in Bermuda, the U.S., Europe and Canada, broad underwriting expertise and substantial capital facilitates adjustments to its mix of business geographically and by line and type of coverage. Our reinsurance group believes that this flexibility allows it to participate in those market opportunities that provide the greatest potential for underwriting profitability.
- Maintain a low cost structure. Our reinsurance group believes that maintaining tight control over its staffing level and operating primarily as a broker market reinsurer permits it to maintain low operating costs relative to its capital and premiums.
- Our reinsurance group writes business on both a proportional and non-proportional basis and writes both treaty and facultative business. In a proportional reinsurance arrangement (also known as pro rata reinsurance, quota share reinsurance or participating reinsurance), the reinsurer shares a proportional part of the original premiums and losses of the reinsured.





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The reinsurer pays the cedent a commission which is generally based on the cedent's cost of acquiring the business being reinsured (including commissions, premium taxes, assessments and miscellaneous administrative expenses) and may also include a profit factor. Non-proportional (or excess of loss) reinsurance indemnifies the reinsured against all or a specified portion of losses on underlying insurance policies in excess of a specified amount, which is called a "retention." Non-proportional business is written in layers and a reinsurer or group of reinsurers accepts a band of coverage up to a specified amount. The total coverage purchased by the cedent is referred to as a "program." Any liability exceeding the upper limit of the program reverts to the cedent.

The reinsurance group's treaty operations generally seek to write significant lines on less commoditized classes of coverage, such as specialty property and casualty reinsurance treaties. However, with respect to other classes of coverage, such as property catastrophe and casualty clash, the reinsurance group's treaty operations participate in a relatively large number of treaties where they believe that they can underwrite and process the business efficiently. The reinsurance group's property facultative operations write reinsurance on a facultative basis whereby they assume part of the risk under primarily single insurance contracts. Facultative reinsurance is typically purchased by ceding companies for individual risks not covered by their reinsurance treaties, for unusual risks or for amounts in excess of the limits on their reinsurance treaties.

Our reinsurance group focuses on the following areas:

**Casualty:** provides coverage to ceding company clients on third party liability and workers' compensation exposures from ceding company clients, primarily on a treaty basis. Exposures include, among others, executive assurance, professional liability, workers' compensation, excess and umbrella liability, excess motor and healthcare business.

**Marine and aviation:** provides coverage for energy, hull, cargo, specie, liability and transit, and aviation business, including airline and general aviation risks. Business written may also include space business, which includes coverages for satellite assembly, launch and operation for commercial space programs.

**Other specialty:** provides coverage to ceding company clients for non-excess motor, including U.K. business primarily emanating from one client, and other lines including surety, accident and health, workers' compensation catastrophe, agriculture, trade credit and political risk.

**Property catastrophe:** provides protection for most catastrophic losses that are covered in the underlying policies written by reinsureds, including hurricane, earthquake, flood, tornado, hail and fire, and coverage for other perils on a case-by-case basis. Property catastrophe reinsurance provides coverage on an excess of loss basis when aggregate losses and loss adjustment expense from a single occurrence of a covered peril exceed the retention specified in the contract.

**Property excluding property catastrophe:** provides coverage for both personal lines and commercial property exposures and principally covers buildings, structures, equipment and contents. The primary perils in this business include fire, explosion, collapse, riot, vandalism, wind, tornado, flood and earthquake. Business is assumed on both a proportional and excess of loss basis. In addition, facultative business is written which focuses on commercial property risks on an excess of loss basis.

**Other.** includes life reinsurance business on both a proportional and non-proportional basis, casualty clash business and, in limited instances, non-traditional business which is intended to provide insurers with risk management solutions that complement traditional reinsurance.

**Underwriting Philosophy.** Our reinsurance group employs a disciplined, analytical approach to underwriting reinsurance risks that is designed to specify an adequate premium for a given exposure commensurate with the amount of capital it anticipates placing at risk. A number of our reinsurance group's underwriters are also actuaries. It is our reinsurance group's belief that employing actuaries on the front-end of the underwriting process gives it an advantage in evaluating risks and constructing a high quality book of business.

As part of the underwriting process, our reinsurance group typically assesses a variety of factors, including: adequacy of underlying rates for a specific class of business and territory;

the reputation of the proposed cedent and the likelihood of establishing a long-term relationship with the cedent, the geographic area in which the cedent does business, together with its catastrophe exposures, and our aggregate exposures in that area;



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historical loss data for the cedent and, where available, for the industry as a whole in the relevant regions, in order to compare the cedent's historical loss experience to industry averages; projections of future loss frequency and severity; and the perceived financial strength of the cedent.

Premiums Written and Geographic Distribution. Set forth below is summary information regarding net premiums written for our reinsurance group:

REINSURANCE SEGMENT	Year Ended December 31, 2014		2013		2012	
	Amount	% of Total	Amount	% of Total	Amount	% of Total
Net premiums written						
Other specialty	\$405,126	32	\$417,865	32	\$308,104	27
Property excluding property catastrophe	343,043	27	292,536	22	265,783	23
Casualty	317,996	25	306,304	23	205,925	18
Property catastrophe	137,471	11	220,749	17	283,677	24
Marine and aviation	50,444	4	64,380	5	84,649	7
Other	11,911	1	11,167	1	10,652	1
Total	\$1,265,991	100	\$1,313,001	100	\$1,158,790	100
Net premiums written by client location						
United States	\$589,255	47	\$706,388	54	\$568,043	49
Europe	355,735	28	327,059	25	341,653	29
Asia and Pacific	142,626	11	94,252	7	97,879	8
Bermuda	77,620	6	87,047	7	72,864	6
Other	100,755	8	98,255	7	78,351	8
Total	\$1,265,991	100	\$1,313,001	100	\$1,158,790	100
Net premiums written by underwriting location						
Bermuda	\$394,351	31	\$459,467	35	\$527,909	46
United States	492,891	39	507,183	39	379,239	33
Europe	343,823	27	309,129	24	225,470	19
Other	34,926	3	37,222	2	26,172	2
Total	\$1,265,991	100	\$1,313,001	100	\$1,158,790	100

Marketing. Our reinsurance group generally markets its reinsurance products through brokers, except our property facultative reinsurance group, which generally deals directly with the ceding companies. Brokers do not have the authority to bind our reinsurance group with respect to reinsurance agreements, nor does our reinsurance group commit in advance to accept any portion of the business that brokers submit to them. Our reinsurance group generally pays brokerage fees to brokers based on negotiated percentages of the premiums written through such brokers. For information on major brokers, see note 16, "Commitments and Contingencies—Concentrations of Credit Risk," of the notes accompanying our consolidated financial statements.

Risk Management and Retrocession. Our reinsurance group currently purchases a combination of per event excess of loss, per risk excess of loss and proportional retrocessional agreements. Such arrangements reduce the effect of individual or aggregate losses, and in certain cases may also increase the underwriting capacity of, our reinsurance group. Our reinsurance group will continue to evaluate its retrocessional requirements based on its net appetite for risk. See note 7, "Reinsurance," of the notes accompanying our consolidated financial statements.

For catastrophe exposed reinsurance business, our reinsurance group seeks to limit the amount of exposure it assumes from any one reinsured and the amount of the aggregate exposure to catastrophe losses from a single event in any one geographic zone. For a discussion of our risk management policies, see "Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies, Estimates and Recent Accounting

Pronouncements—Ceded Reinsurance” and “Risk Factors—Risks Relating to Our Industry—The failure of any of the loss limitation methods we employ could have a material adverse effect on our financial condition or results of operations.”

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**Claims Management.** Claims management includes the receipt of initial loss reports, creation of claim files, determination of whether further investigation is required, establishment and adjustment of case reserves and payment of claims. Additionally, audits are conducted for both specific claims and overall claims procedures at the offices of selected ceding companies. Our reinsurance group makes use of outside consultants for claims work from time to time.

### **Mortgage Operations**

Our mortgage group includes direct mortgage insurance in the United States primarily provided by Arch MI U.S., which we acquired in January 2014; mortgage reinsurance provided primarily by Arch Re Bermuda to mortgage insurers on both a proportional and non-proportional basis globally; direct mortgage insurance in Europe provided by Arch MI Europe; and various risk-sharing products provided primarily by Arch Re Bermuda to government agencies and mortgage lenders.

Arch MI U.S., based in Walnut Creek, California, is licensed and operates in all 50 states, the District of Columbia and Puerto Rico. It has been approved as an eligible mortgage insurer by Fannie Mae and Freddie Mac, each a GSE, subject to maintaining certain ongoing requirements. Beginning in 2015, Arch Mortgage Guaranty, an affiliate of Arch MI U.S., will offer direct mortgage insurance to U.S. mortgage lenders with respect to mortgages that lenders intend to retain in portfolio or include in non-agency securitizations. Arch Mortgage Guaranty is licensed in all states but its licenses in Florida and Connecticut are currently restricted to the servicing of existing business. Arch Mortgage Guaranty is not intended to insure mortgages that will be purchased by the GSEs and it is not approved by either GSE as an eligible mortgage insurer.

Arch MI Europe is licensed and authorized by the Central Bank of Ireland (“CBOI”) to operate on a pan-European basis under the European Freedom of Services Act. Arch MI Europe is headquartered in Dublin, Ireland. Arch Risk Partners Ltd. (“Arch Risk Partners”), a U.K. based, FSA authorized insurance intermediary authorized by the FSA in February 2012 with a representative office in Milan, Italy, and Arch Underwriters Europe Limited (“Arch Underwriters Europe”), an Ireland company, act on behalf of Arch MI Europe and Arch Re Bermuda in the arrangement of mortgage insurance and reinsurance.

As of February 20, 2015, our mortgage group had approximately 340 employees.

**Strategy.** The mortgage insurance market operates on its own distinct underwriting cycle, with demand driven mainly by the housing market and general economic conditions. As a result, the creation of the mortgage group provides us with a more diverse revenue stream. Our mortgage group’s strategy is to capitalize on its financial capacity, the mortgage insurance technology platform of Arch MI U.S. and its experienced management and operational flexibility to offer mortgage insurance, reinsurance and other risk-sharing products in the United States and around the world.

Our mortgage group’s operating principles and goals are to:

**Expand Arch MI U.S.’s business.** Prior to the acquisition of Arch MI U.S., it was the leading provider of mortgage insurance products and services to credit unions in the U.S. and was approved by the GSEs as an eligible mortgage insurer solely for credit union customers. Our mortgage group’s strategy is to broaden Arch MI U.S.’s customer base to national and regional banks and mortgage originators, while maintaining and increasing Arch MI U.S.’s share of the mortgage insurance credit union market. In 2014, Arch MI U.S. substantially completed the build out of its sales force to serve banks and other mortgage originators, enabling it to serve all lenders nationwide.

**Capitalize on profitable underwriting opportunities.** Our mortgage group believes that its experienced management, analytics and underwriting teams are positioned to identify and evaluate business with attractive risk/reward characteristics.

**Maintain a disciplined credit risk philosophy.** Our mortgage group’s credit risk philosophy is to generate underwriting profit through disciplined credit risk analysis and proper pricing. Our mortgage group believes that the key to this approach is adherence to uniform underwriting standards across all phases of the applicable housing and mortgage lending cycles.

**Provide superior and innovative mortgage products and services.** Our mortgage group believes that it can leverage our financial capacity, experience across insurance product lines, and its analytics and technology to provide innovative products and superior service. The mortgage group believes that its delivery of tailored products that meet the specific, evolving needs of its customers will be a key to the group’s success.



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Our mortgage group focuses on the following areas:

Direct mortgage insurance in the United States. Under their monoline insurance licenses, Arch MI U.S. and Arch Mortgage Guaranty may only offer private mortgage insurance covering first lien, one-to-four family residential mortgages. Nearly all of Arch MI U.S.'s mortgage insurance written provides first loss protection on loans originated by mortgage lenders and sold to the GSEs. Each GSE's Congressional charter generally prohibits it from purchasing a mortgage where the principal balance of the mortgage is in excess of 80% of the value of the property securing the mortgage unless the excess portion of the mortgage is protected against default by lender recourse, participation or by a qualified insurer. As a result, such "high loan-to-value mortgages" purchased by Fannie Mae or Freddie Mac generally are insured with private mortgage insurance.

Mortgage insurance protects the insured lender, investor or GSE against loss in the event of a borrower's default. If a borrower defaults on mortgage payments, private mortgage insurance reduces and may eliminate losses to the insured. Private mortgage insurance may also facilitate the sale of mortgage loans in the secondary mortgage market because of the credit enhancement it provides. Our primary U.S. mortgage insurance policies are predominantly "flow" insurance policies, which cover individual loans at the time the loan is originated. We also may enter into "bulk" insurance transactions with lenders and investors, under which we insure a portfolio of loans at or after origination for a negotiated price and terms. In the future, Arch MI U.S. or Arch Mortgage Guaranty may offer mortgage insurance on a "pool" basis. Under pool insurance, the mortgage insurer provides coverage on a group of specified loans, typically for 100% of all losses on every loan in the portfolio, subject to an agreed aggregate loss limit.

Direct mortgage insurance in Europe and other countries where we identify profitable underwriting opportunities. Since 2011, Arch MI Europe has offered mortgage insurance to European mortgage lenders. Arch MI Europe's mortgage insurance is primarily purchased by European mortgage lenders in order to reduce lenders' credit risk and regulatory capital requirements associated with the insured mortgages. In certain European countries, lenders purchase mortgage insurance to facilitate regulatory compliance with respect to high loan-to-value residential lending. Arch MI Europe offers mortgage insurance on both a "flow" basis to cover new originations and through structured transactions to cover one or more portfolios of previously originated residential loans.

Reinsurance. Arch Re Bermuda provides quota share reinsurance covering U.S. and international mortgages. Such amounts include a quota share reinsurance agreement with PMI pursuant to which it agreed to provide 100% quota share indemnity reinsurance to PMI for all certificates of insurance that were issued by PMI from January 1, 2009 through December 31, 2011 that were not in default as of an agreed upon effective date. Other than this quota share, no PMI legacy mortgage insurance exposures were assumed.

Other risk-sharing products. In addition to providing traditional mortgage insurance and reinsurance, we offer various risk-sharing products to government agencies and mortgage lenders. The GSEs are reducing their exposure to mortgage risk and shifting more of it to the private sector, creating opportunities for insurers like Arch. In 2013, Arch Re Bermuda became the first (re)insurance company to participate in Freddie Mac's program to transfer certain credit risk in its single-family portfolio to the private sector.

Underwriting Philosophy. Our mortgage group believes in a disciplined, analytical approach to underwriting mortgage risks by utilizing proprietary and third party models to forecast delinquency and future home price movements with the goal of ensuring that premiums are adequate for the risk being insured. Experienced actuaries and statistical modelers are engaged in analytics to inform the underwriting process. As part of the underwriting process, our mortgage group typically assesses a variety of factors, including the:

- ability and willingness of the mortgage borrower to pay its obligations under the mortgage loan being insured;
- characteristics of the mortgage loan being insured and value of the collateral securing the mortgage loan;
- financial strength, quality of operations and reputation of the lender originating the mortgage loan;
- expected future home price movements which vary by geography;
- projections of future loss frequency and severity; and
- adequacy of premium rates.





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Premiums Written and Geographic Distribution. Set forth below is summary information regarding net premiums written for our mortgage group:

MORTGAGE SEGMENT	Year Ended December 31, 2014		2013		2012	
	Amount	% of Total	Amount	% of Total	Amount	% of Total
Net premiums written by client location						
United States	\$184,333	90	\$63,692	71	\$61,571	90
Other	20,504	10	25,878	29	6,540	10
Total	\$204,837	100	\$89,570	100	\$68,111	100
Net premiums written by underwriting location						
United States	\$98,809	48	\$—	—	\$—	—
Other	106,028	52	89,570	100	68,111	100
Total	\$204,837	100	\$89,570	100	\$68,111	100

Marketing. Arch MI U.S. employs a sales force located throughout the U.S. to directly sell mortgage insurance products and services to its bank customers. Arch MI U.S. has entered into a distribution services agreement with CUNA Mutual (a former part owner of Arch MI U.S.) pursuant to which CUNA Mutual sales employees exclusively market Arch MI U.S. mortgage insurance products to credit union customers. In Europe and Bermuda, our products and services are distributed on a direct basis and through brokers. Each country represents a unique set of opportunities and challenges that require knowledge of market conditions and client needs to develop effective solutions.

Risk Management. Exposure to mortgage risk is monitored globally and managed through underwriting guidelines, reinsurance, concentration limits and limits on net probable loss resulting from a severe economic downturn in the housing market. For a discussion of our risk management policies, see “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies, Estimates and Recent Accounting Pronouncements—Ceded Reinsurance” and “Risk Factors—Risks Relating to Our Industry—The failure of any of the loss limitation methods we employ could have a material adverse effect on our financial condition or results of operations.” Our mortgage group has ceded a portion of its premium on a quota share basis through certain reinsurance agreements. Reinsurance arrangements do not relieve our mortgage group from its primary obligations to insured parties. Reinsurance recoverables are recorded as assets, predicated on the reinsurers’ ability to meet their obligations under the reinsurance agreements. If the reinsurers are unable to satisfy their obligations under the agreements, our mortgage subsidiaries would be liable for such defaulted amounts.

Claims Management. With respect to our direct mortgage insurance business, the claims process generally begins with notification by the insured or servicer to us of a default on an insured loan. The insured is generally required to notify us of a default after the borrower becomes two consecutive monthly payments in default. Borrowers default for a variety of reasons, including a reduction of income, unemployment, divorce, illness, inability to manage credit, rising interest rate levels and declining home prices. Upon notice of a default, in certain cases we may coordinate with loan servicers to facilitate and enhance retention workouts on insured loans. Retention workouts include loan modifications and other loan repayment options, which may enable borrowers to cure mortgage defaults and retain ownership of their homes. If a retention workout is not viable for a borrower, our loss on a loan may be mitigated through a liquidation workout option, including a pre-foreclosure sale or a deed-in-lieu of foreclosure. In the U.S., our master policies generally provide that within 60 days of the perfection of a primary insurance claim, we have the option of: paying the insurance coverage percentage specified in the certificate of insurance multiplied by the loss amount; in the event the property is sold pursuant to an approved prearranged sale, paying the lesser of (i) 100% of the loss amount less the proceeds of sale of the property, or (ii) the specified coverage percentage multiplied by the loss amount; or paying 100% of the loss amount in exchange for the insured’s conveyance to us of good and marketable title to the property, with us then selling the property for our own account.

While we select the claim settlement option that best mitigates the amount of our claim payment, in the U.S. we generally pay the coverage percentage multiplied by the loss amount.

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### Other Operations

In 2014 we sponsored, along with Highbridge, Watford Re, a new property and casualty reinsurer for which we perform underwriting services and Highbridge manages the investments, each under a long term services agreement. Watford Re's strategy is to combine a diversified reinsurance business with a disciplined investment strategy comprised primarily of non-investment grade credit assets. Watford Re believes this combination will enable it to generate attractive risk-adjusted returns for its shareholders over the long term. Watford Re has its own management and board of directors and is responsible for the overall profitability of its results. John Rathgeber, previously Vice Chairman of Arch Worldwide Reinsurance Group, was named CEO of Watford Re. In addition, Marc Grandisson, Chairman and CEO of Arch Worldwide Reinsurance and Mortgage Groups, and Nicolas Papadopoulo, CEO Reinsurance Group, were appointed as two of the five members of the board of directors of Watford Re. We invested \$100.0 million to acquire approximately 11% of Watford Re's common equity and a warrant to purchase additional common equity. We performed an analysis of Watford Re and concluded that Watford Re is a variable interest entity and that we are the primary beneficiary of Watford Re. As such, 100% of the results of Watford Re are included in our consolidated financial statements.

### Employees

As of February 20, 2015, ACGL and its subsidiaries employed approximately 1,920 full-time employees.

### Reserves

Reserve estimates are derived after extensive consultation with individual underwriters, actuarial analysis of the loss reserve development and comparison with industry benchmarks. Our reserves are established and reviewed by experienced internal actuaries. Generally, reserves are established without regard to whether we may subsequently contest the claim. We do not currently discount our loss reserves except for excess workers' compensation and employers' liability loss reserves in our insurance operations.

Loss reserves represent estimates of what the insurer or reinsurer ultimately expects to pay on claims at a given time, based on facts and circumstances then known, and it is probable that the ultimate liability may exceed or be less than such estimates. Even actuarially sound methods can lead to subsequent adjustments to reserves that are both significant and irregular due to the nature of the risks written. Loss reserves are inherently subject to uncertainty. In establishing the reserves for losses and loss adjustment expenses, we have made various assumptions relating to the pricing of our reinsurance contracts and insurance policies and have also considered available historical industry experience and current industry conditions. The timing and amounts of actual claim payments related to recorded reserves vary based on many factors including large individual losses and changes in the legal environment, as well as general market conditions. The ultimate amount of the claim payments could differ materially from our estimated amounts. Certain lines of business written by us, such as excess casualty, have loss experience characterized as low frequency and high severity. This may result in significant variability in loss payment patterns and, therefore, may impact the related asset/liability investment management process in order to be in a position, if necessary, to make these payments. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies, Estimates and Recent Accounting Pronouncements—Reserves for Losses and Loss Adjustment Expenses."

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The table below represents the development of loss reserves as determined under accounting principles generally accepted in the United States of America (“GAAP”) for 2004 through 2014:

## Development of GAAP Reserves

## Cumulative Redundancy (Deficiency)

(U.S. dollars in millions)	Year Ended December 31,										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Reserve for losses and loss adjustment expenses, net of reinsurance recoverables	\$2,875	\$4,063	\$4,911	\$5,483	\$5,938	\$6,214	\$6,395	\$6,638	\$7,104	\$7,076	\$7,258
Cumulative net paid losses as of:											
One year later	449	745	843	954	1,167	1,106	1,127	1,169	1,351	1,300	
Two years later	811	1,332	1,486	1,817	2,114	1,943	1,938	2,096	2,353		
Three years later	1,110	1,688	2,040	2,308	2,768	2,561	2,613	2,845			
Four years later	1,300	1,993	2,375	2,755	3,222	3,070	3,128				
Five years later	1,478	2,249	2,680	3,023	3,596	3,469					
Six years later	1,629	2,447	2,867	3,254	3,871						
Seven years later	1,740	2,603	3,005	3,429							
Eight years later	1,797	2,684	3,123								
Nine years later	1,829	2,767									
Ten years later	1,886										
Net re-estimated reserve as of:											
One year later	2,756	3,986	4,726	5,173	5,749	6,067	6,110	6,416	6,840	6,749	
Two years later	2,614	3,809	4,387	4,959	5,620	5,826	5,927	6,160	6,540		
Three years later	2,487	3,541	4,164	4,849	5,466	5,711	5,748	5,930			

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Four years later	2,353	3,381	4,107	4,740	5,403	5,570	5,567				
Five years later	2,305	3,359	4,026	4,680	5,308	5,439					
Six years later	2,291	3,301	3,989	4,604	5,200						
Seven years later	2,255	3,327	3,944	4,508							
Eight years later	2,271	3,280	3,860								
Nine years later	2,247	3,237									
Ten years later	2,238										
Cumulative net redundancy	\$637	\$826	\$1,051	\$975	\$738	\$775	\$828	\$708	\$564	\$327	
Cumulative net redundancy as a percentage of net reserves	22.2	%20.3	%21.4	%17.8	%12.4	%12.5	%12.9	%10.7	%7.9	%4.6	%
Gross reserve for losses and loss adjustment expenses	\$3,493	\$5,453	\$6,463	\$7,092	\$7,667	\$7,873	\$8,098	\$8,456	\$8,933	\$8,824	\$9,036
Reinsurance recoverable	(618 )	(1,390 )	(1,552 )	(1,609 )	(1,729 )	(1,659 )	(1,703 )	(1,818 )	(1,829 )	(1,748 )	(1,778 )
Net reserve for losses and loss adjustment expenses	\$2,875	\$4,063	\$4,911	\$5,483	\$5,938	\$6,214	\$6,395	\$6,638	\$7,104	\$7,076	\$7,258
Gross re-estimated reserve	\$2,684	\$4,508	\$5,135	\$5,861	\$6,608	\$6,815	\$6,940	\$7,438	\$8,259	\$8,436	
Re-estimated reinsurance recoverable	(446 )	(1,271 )	(1,275 )	(1,353 )	(1,408 )	(1,376 )	(1,373 )	(1,508 )	(1,719 )	(1,687 )	
Net re-estimated reserve	2,238	3,237	3,860	4,508	5,200	5,439	5,567	5,930	6,540	6,749	
Gross re-estimated	\$809	\$945	\$1,328	\$1,231	\$1,059	\$1,058	\$1,158	\$1,018	\$674	\$388	

redundancy

The preceding table does not present accident or policy year development data and, instead, presents an analysis of the claim development of gross and net balance sheet reserves existing at each calendar year-end in subsequent calendar years. The top line of the table shows the reserves, net of reinsurance recoverables, at the balance sheet date for each of the indicated years. This represents the estimated amounts of net losses and loss adjustment expenses arising in all prior years that are unpaid at the balance sheet date, including incurred but not reported (“IBNR”) reserves. The table also shows the re-estimated amount of the previously recorded reserves based on experience as of the end of each succeeding year. The estimate changes as more information becomes known about the frequency and severity of claims for individual years. The “cumulative redundancy (deficiency)” represents the aggregate change in the estimates over all prior years. The table also

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shows the cumulative amounts paid as of successive years with respect to that reserve liability. In addition, the table reflects the claim development of the gross balance sheet reserves for ending reserves at December 31, 2004 through December 31, 2014.

The following table represents an analysis of losses and loss adjustment expenses and a reconciliation of the beginning and ending reserve for losses and loss adjustment expenses:

	Year Ended December 31,		
	2014	2013	2012
Reserve for losses and loss adjustment expenses at beginning of year	\$8,824,696	\$8,933,292	\$8,456,210
Unpaid losses and loss adjustment expenses recoverable	1,748,250	1,829,070	1,818,047
Net reserve for losses and loss adjustment expenses at beginning of year	7,076,446	7,104,222	6,638,163
Net incurred losses and loss adjustment expenses relating to losses occurring in:			
Current year	2,246,152	1,943,466	2,082,805
Prior years	(326,902)	(264,042)	(221,528)
Total net incurred losses and loss adjustment expenses	1,919,250	1,679,424	1,861,277
Net losses and loss adjustment expense reserves of acquired business (1)	120,671	—	31,977
Foreign exchange (gains) losses	(160,486)	1,617	38,184
Net paid losses and loss adjustment expenses relating to losses occurring in:			
Current year	(347,270)	(288,114)	(295,984)
Prior years	(1,350,466)	(1,420,703)	(1,169,395)
Total net paid losses and loss adjustment expenses	(1,697,736)	(1,708,817)	(1,465,379)
Net reserve for losses and loss adjustment expenses at end of year	7,258,145	7,076,446	7,104,222
Unpaid losses and loss adjustment expenses recoverable	1,778,303	1,748,250	1,829,070
Reserve for losses and loss adjustment expenses at end of year	\$9,036,448	\$8,824,696	\$8,933,292

(1) 2014 amount relates to our acquisition of Arch MI U.S. while the 2012 amount relates to our acquisition of the trade credit and surety operations of Ariel Re.

Our initial reserving method to date has to a large extent been the expected loss method, which is commonly applied when limited loss experience exists. We select the initial expected loss and loss adjustment expense ratios based on information derived by our underwriters and actuaries during the initial pricing of the business, supplemented by industry data where appropriate. These ratios consider, among other things, rate changes and changes in terms and conditions that have been observed in the market. Any estimates and assumptions made as part of the reserving process could prove to be inaccurate due to several factors, including the fact that relatively limited historical information has been reported to us through December 31, 2014. We employ a number of different reserving methods depending on the segment, the line of business, the availability of historical loss experience and the stability of that loss experience. Over time, we have given additional weight to our historical loss experience in our reserving process due to the continuing maturation of our reserves, and the increased availability and credibility of the historical experience. For additional information regarding the key underlying movements in our losses and loss adjustment expenses by segment, see “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations.”

Unpaid and paid losses and loss adjustment expenses recoverable were approximately \$1.81 billion at December 31, 2014. We are subject to credit risk with respect to our reinsurance and retrocessions because the ceding of risk to reinsurers and retrocessionaires does not relieve us of our liability to the clients or companies we insure or reinsure.



Our failure to establish adequate reinsurance or retrocessional arrangements or the failure of our existing reinsurance or retrocessional arrangements to protect us from overly concentrated risk exposure could materially adversely affect our financial condition and results of operations. Although we monitor the financial condition of our reinsurers and retrocessionaires and attempt to place coverages only with substantial, financially sound carriers, we may not be successful in doing so.

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## Investments

At December 31, 2014, total investable assets of \$15.77 billion included \$14.61 billion managed by Arch and \$1.16 billion included in the ‘other’ segment (i.e., attributable to Watford Re), as summarized in the table below. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources—Financial Condition—Investable Assets” and note 8, “Investment Information,” of the notes accompanying our financial statements.

The following table summarizes our invested assets:

	December 31, 2014		December 31, 2013	
	Amount	% of Total	Amount	% of Total
Investable assets (1) (2):				
Fixed maturities available for sale, at fair value	\$10,750,770	73.6	\$9,571,776	68.1
Fixed maturities, at fair value (3)	377,053	2.6	448,254	3.2
Fixed maturities pledged under securities lending agreements, at fair value	50,802	0.3	105,081	0.8
Total fixed maturities	11,178,625	76.5	10,125,111	72.1
Short-term investments available for sale, at fair value	797,226	5.5	1,478,367	10.5
Cash	474,247	3.2	434,057	3.1
Equity securities available for sale, at fair value	658,182	4.5	496,824	3.5
Other investments available for sale, at fair value	296,224	2.0	498,310	3.6
Other investments, at fair value (3)	889,253	6.1	773,280	5.5
Investments accounted for using the equity method (4)	349,014	2.4	244,339	1.7
Securities transactions entered into but not settled at the balance sheet date	(32,802 )	(0.2 )	(763 )	—
Total investable assets managed by Arch	\$14,609,969	100.0	\$14,049,525	100.0

(1) The table above excludes investable assets attributable to the ‘other’ segment. Such amounts are summarized as follows:

(U.S. dollars in thousands)	December 31, 2014
Investable assets in ‘other’ segment:	
Cash	\$11,455
Investments accounted for using the fair value option (3)	1,169,226
Securities transactions entered into but not settled at the balance sheet date	(17,441 )
Total investable assets included in ‘other’ segment	\$1,163,240

(2) This table excludes the collateral received and reinvested and includes the fixed maturities and short-term investments pledged under securities lending agreements, at fair value.

Represents investments which are carried at fair value under the fair value option and reflected as “investments (3) accounted for using the fair value option” on our balance sheet. Changes in the carrying value of such investments are recorded in net realized gains or losses.

Changes in the carrying value of investment funds accounted for using the equity method are recorded as “equity in (4) net income (loss) of investment funds accounted for using the equity method” rather than as an unrealized gain or loss component of accumulated other comprehensive income.

Our current investment guidelines and approach stress preservation of capital, market liquidity and diversification of risk. Our investments are subject to market-wide risks and fluctuations, as well as to risks inherent in particular securities. While maintaining our emphasis on preservation of capital and liquidity, we expect our portfolio to become more diversified and, as a result, we may in the future expand into areas which are not part of our current investment strategy. Our fixed maturities, fixed maturities pledged under securities lending agreements and short-term investments had an average credit quality rating of “AA” from S&P and “Aa2” from Moody’s Investors Service (“Moody’s”) at December 31, 2014, compared to “AA-” from S&P and “Aa2” from Moody’s at December 31, 2013. Our investment portfolio had an average effective duration of approximately 3.34 years and 2.62 years at December 31, 2014 and 2013, respectively. At December 31, 2014, 94.4% of our fixed maturities and fixed maturities pledged under securities lending agreements were rated investment grade, compared to 92.6% at December 31, 2013.

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The credit quality distribution of our fixed maturities and fixed maturities pledged under securities lending agreements are shown below:

Rating (1)	December 31, 2014		December 31, 2013	
	Fair Value	% of Total	Fair Value	% of Total
U.S. government and government agencies (2)	\$2,245,489	20.1	\$2,284,053	22.6
AAA	4,299,060	38.5	3,709,872	36.6
AA	1,917,392	17.2	1,720,605	17.0
A	1,739,922	15.6	1,359,193	13.4
BBB	339,395	3.0	304,543	3.0
BB	157,232	1.4	180,125	1.8
B	184,869	1.7	188,119	1.9
Lower than B	154,823	1.4	241,463	2.4
Not rated	140,443	1.1	137,138	1.3
Total	\$11,178,625	100.0	\$10,125,111	100.0

(1) For individual fixed maturities, S&P ratings are used. In the absence of an S&P ratings, ratings from Moody's are used, followed by ratings from Fitch Ratings.

(2) Includes U.S. government-sponsored agency mortgage backed securities and agency commercial mortgage backed securities.

For 2014, 2013 and 2012, set forth below is the pre-tax total return (before investment expenses) of the investment portfolio managed by Arch compared to the benchmark return against which we measured our portfolio during the year. The benchmark return index is a customized combination of indices intended to approximate a target portfolio by asset mix and average credit quality while also matching the approximate estimated duration and currency mix of our insurance and reinsurance liabilities (see "Management's Discussion and Analysis of Financial Condition and Results of Operations—General—Financial Measures—Total Return on Investments").

	Arch Portfolio (1)	Benchmark Return	
Pre-tax total return (before investment expenses):			
Year Ended December 31, 2014	3.21	% 2.58	%
Year Ended December 31, 2013	1.28	% 0.85	%
Year ended December 31, 2012	5.88	% 4.90	%

(1) Our investment expenses were approximately 0.28%, 0.26% and 0.22%, respectively, of average invested assets in 2014, 2013 and 2012.

### Ratings

Our ability to underwrite business is dependent upon the quality of our claims paying ability and financial strength ratings as evaluated by independent agencies. Such ratings from third party internationally recognized statistical rating organizations or agencies are instrumental in establishing the competitive positions of companies in our industry. We believe that the primary users of such ratings include commercial and investment banks, policyholders, brokers, ceding companies and investors. Insurance ratings are also used by insurance and reinsurance intermediaries as an important means of assessing the financial strength and quality of insurers and reinsurers, and have become an increasingly important factor in establishing the competitive position of insurance and reinsurance companies. These ratings are often an important factor in the decision by an insured or intermediary of whether to place business with a particular insurance or reinsurance provider. Periodically, rating agencies evaluate us to confirm that we continue to meet their criteria for the ratings assigned to us by them. A.M. Best Company ("A.M. Best") maintains a letter scale rating system ranging from "A++" (Superior) to "F" (In Liquidation). Moody's maintains a letter scale rating from "Aaa" (Exceptional) to "NP" (Not Prime). S&P maintains a letter scale rating system ranging from "AAA" (Extremely Strong) to "R" (Under Regulatory Supervision). Fitch Ratings ("Fitch") maintains a letter scale rating system ranging from "AAA"

(Exceptionally Strong) to “C” (Distressed).

Our reinsurance subsidiaries, Arch Re U.S., Arch Re Bermuda and Arch Re Europe (S&P and Fitch only), and our principal insurance subsidiaries, Arch Insurance, Arch E&S, Arch Specialty, Arch Insurance Company Europe and Arch Insurance Canada (S&P and A.M. Best only), each currently has a financial strength rating of “A+” (the second highest out

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of fifteen rating levels) with a stable outlook from A.M. Best, “A1” (the fifth highest out of 21 rating levels) with a stable outlook from Moody’s, “A+” (the fifth highest out of 21 rating levels) with a stable outlook from S&P, and “A+” (the fifth highest out of 24 rating levels) with a stable outlook from Fitch. A.M. Best has assigned a financial strength rating of “NR-3” (Rating Procedure Inapplicable) to Arch Indemnity, which is not writing business currently. Lloyd’s has financial strength ratings of “A” (the third highest out of fifteen rating levels) with a stable outlook from A.M. Best, “A+” with a stable outlook from S&P and “A+” with a stable outlook from Fitch. Our U.S. mortgage insurance subsidiary, Arch MI U.S., is rated “BBB+” (the eighth highest out of 21 rating levels) with a positive outlook by S&P and “Baa1” (the eighth highest out of 21 rating levels) by Moody’s with a stable outlook. Arch MI Europe is rated “A+” (the fifth highest out of 21 rating levels) with a stable outlook from S&P. Arch Mortgage Guaranty is rated “A3” (the seventh highest out of 21 rating levels) by Moody’s with a stable outlook. Watford Re currently has a financial strength rating of “A-” (the fourth highest out of fifteen rating levels) with a stable outlook from A.M. Best.

ACGL has received counterparty (issuer) credit ratings of “A-” (seventh highest out of 21 rating levels) with a stable outlook from S&P, “A3” (seventh highest out of 21 rating levels) with a stable outlook from Moody’s and “A” long term issuer rating (sixth highest out of 23 rating levels) with a stable outlook from Fitch. A counterparty credit rating provides an opinion on an issuer’s overall capacity and willingness to meet its financial commitments as they become due, but is not specific to a particular financial obligation.

The financial strength ratings assigned by rating agencies to insurance and reinsurance companies represent independent opinions of financial strength and ability to meet policyholder obligations and are not directed toward the protection of investors, nor are they recommendations to buy, hold or sell any securities. We can offer no assurances that our ratings will remain at their current levels, or that our security will be accepted by brokers and our insureds and reinsureds. A ratings downgrade or the potential for such a downgrade, or failure to obtain a necessary rating, could adversely affect both our relationships with agents, brokers, wholesalers and other distributors of our existing products and services and new sales of our products and services. In addition, under certain of the reinsurance agreements assumed by our reinsurance operations, upon the occurrence of a ratings downgrade or other specified triggering event with respect to our reinsurance operations, such as a reduction in surplus by specified amounts during specified periods, our ceding company clients may be provided with certain rights, including, among other things, the right to terminate the subject reinsurance agreement and/or to require that our reinsurance operations post additional collateral. In the event of a ratings downgrade or other triggering event, the exercise of such contract rights by our clients could have a material adverse effect on our financial condition and results of operations, as well as our ongoing business and operations. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources—Liquidity and Capital Resources.”

**Competition**

The worldwide reinsurance and insurance businesses are highly competitive. We compete, and will continue to compete, with major U.S. and non-U.S. insurers and reinsurers, some of which have greater financial, marketing and management resources than we have and have had longer-term relationships with insureds and brokers than us. We compete with other insurers and reinsurers primarily on the basis of overall financial strength, ratings assigned by independent rating agencies, geographic scope of business, strength of client relationships, premiums charged, contract terms and conditions, products and services offered, speed of claims payment, reputation, employee experience, and qualifications and local presence.

In our insurance business, we compete with insurers that provide specialty property and casualty lines of insurance, including ACE Limited, Alleghany Corporation, Allied World Assurance Company, Ltd., American International Group, Inc., AXIS Capital Holdings Limited, Berkshire Hathaway, Inc., Chubb Corporation, CNA, Endurance Specialty Holdings Ltd., The Hartford Financial Services Group, Inc., HCC Insurance Holdings, Inc., Ironshore Inc., Liberty Mutual Insurance, Lloyd’s, Markel Insurance Company, RLI Corp., The Travelers Companies, W.R. Berkley Corp., XL Group plc and Zurich Insurance Group. In our reinsurance business, we compete with reinsurers that provide property and casualty lines of reinsurance, including ACE Limited, Alleghany Corporation, Argo International Holdings, Ltd., AXIS Capital Holdings Limited, Berkshire Hathaway, Inc., Endurance Specialty Holdings Ltd., Everest Re Group Ltd., Hannover Rückversicherung AG, Lloyd’s, Markel Global Reinsurance, Montpelier Re Holdings Ltd., Munich Re Group, PartnerRe Ltd., Platinum Underwriters Holdings, Ltd.,

RenaissanceRe Holdings Ltd., Swiss Reinsurance Company, Third Point Reinsurance Ltd., Validus Holdings Ltd. and XL Group plc.

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In our mortgage business, we compete with six active U.S. mortgage insurers, which include the mortgage insurance subsidiaries of Essent Group Ltd., Genworth Financial Inc., MGIC Investment Corporation, NMI Holdings Inc., Radian Group Inc. and United Guaranty Corporation. The private mortgage insurance industry is highly competitive. Private mortgage insurers generally compete on the basis of underwriting guidelines, pricing, terms and conditions, financial strength, product and service offerings, customer relationships, reputation, the strength of management, technology, and innovation in the delivery and servicing of insurance products. Arch MI U.S. and other private mortgage insurers compete with federal and state government agencies that sponsor their own mortgage insurance programs. The private mortgage insurers' principal government competitor is the Federal Housing Administration ("FHA") and, to a lesser degree, the U.S. Department of Veterans Affairs ("VA"). The mortgage insurance industry's business has been limited as a result of competition with the FHA, which substantially increased its market share beginning in 2008. Recent and future changes to the FHA program may impact the demand for private mortgage insurance. On our mortgage reinsurance and other risk sharing products, we have seen increased competition from other well capitalized and highly rated multiline reinsurers. It is our expectation that the depth and capacity of competitors from this segment will continue to increase over the next several years as more credit risk is borne by private capital.

### Enterprise Risk Management

Enterprise Risk Management ("ERM") is a key element in our philosophy, strategy and culture. We employ an ERM framework that includes underwriting, reserving, investment, credit and operational risks. Risk appetite and exposure limits are set by our executive management team, reviewed with our board of directors and board level committees and routinely discussed with business unit management. These limits are integrated into our operating guidelines and the exposures are aggregated and monitored periodically by our corporate risk management team. The reporting, review and approval of risk management information is integrated into our annual planning process, capital modeling and allocation, reinsurance purchasing strategy and reviewed at insurance business reviews, reinsurance underwriting meetings and board level committees. For a discussion of our risk management policies, see "Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies, Estimates and Recent Accounting Pronouncements—Ceded Reinsurance" and "Risk Factors—Risks Relating to Our Industry—The failure of any of the loss limitation methods we employ could have a material adverse effect on our financial condition or results of operations."

### Regulation

#### Bermuda Insurance Regulation

The Insurance Act 1978 of Bermuda and Related Regulations ("Insurance Act"). Arch Re Bermuda is subject to the Insurance Act, which provides that no person shall carry on any insurance business in or from within Bermuda unless registered as an insurer under the Insurance Act by the Bermuda Monetary Authority (the "BMA"), which is responsible for the day-to-day supervision of insurers. Under the Insurance Act, insurance business includes reinsurance business. We believe that we are in compliance with all applicable regulations under the Insurance Act.

The Insurance Act imposes solvency and liquidity standards and auditing and reporting requirements on Bermuda insurance companies and grants to the BMA powers to supervise, investigate and intervene in the affairs of insurance companies. Certain significant aspects of the Bermuda insurance regulatory framework are set forth below.

**Classification of Insurers.** The Insurance Act distinguishes between insurers carrying on long-term business, insurers carrying on general business and insurers carrying on special purpose business. There are six general business classifications (Classes 1, 2, 3, 3A, 3B and 4), five long-term business classifications (Classes A, B, C, D and E) and one classification of special purpose insurer.

As Arch Re Bermuda carries on both long-term and general business, it is required to be registered as both a long-term and as a general business insurer under the Insurance Act. Accordingly, Arch Re Bermuda is registered as a Class 4 general business insurer and as a Class C long-term insurer. Class 4 insurers are regarded as large commercial underwriters and are subject to the strictest regulation. Class C insurers are regarded as small commercial underwriters and are subject to less stringent regulation. Watford Re is registered as a Class 4 insurer and subject to similar regulation. The remainder of this section focuses on Arch Re Bermuda only.



Minimum Paid-Up Share Capital. Arch Re Bermuda is required to maintain fully paid-up share capital of \$1.25 million.

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**Principal Representative and Principal Office.** An insurer is required to maintain a principal office and to appoint and maintain a principal representative in Bermuda. It is the duty of the principal representative upon reaching the view that there is a likelihood of the insurer for which the principal representative acts becoming insolvent or that a reportable “event” has, to the principal representative’s knowledge, occurred or is believed to have occurred, to immediately notify the BMA and to make a report in writing to the BMA within 14 days of the prior notification setting out all the particulars of the case that are available to the principal representative.

Where there has been a significant loss which is reasonably likely to cause the insurer to fail to comply with its enhanced capital requirement (in respect of its general business, as described in more detail below), the principal representative must also furnish the BMA with a capital and solvency return reflecting an enhanced capital requirement prepared using post-loss data. The principal representative must provide this within 45 days of notifying the BMA regarding the loss.

Furthermore, where a notification has been made to the BMA regarding a material change to an insurer’s business or structure (including a merger or amalgamation), the principal representative has 30 days from the date of such notification to furnish the BMA with unaudited interim statutory financial statements in relation to such period if so requested by the BMA, together with a general business solvency certificate in respect of those statements.

**Approved Independent Auditor.** All insurers must appoint an independent auditor who annually audits and reports on the insurer’s financial statements prepared under generally accepted accounting principles (“GAAP”) or international financial reporting standards (“IFRS”) and statutory financial statements and the statutory financial return of the insurer, all of which, in the case of Arch Re Bermuda, are required to be filed annually with the BMA. The independent auditor must be approved by the BMA.

**Approved Actuary.** As a Class C insurer, Arch Re Bermuda is required to submit an annual actuary’s certificate when filing its statutory financial returns. The actuary, who is normally a qualified life actuary, must be approved by the BMA.

**Approved Loss Reserve Specialist.** As a Class 4 insurer, Arch Re Bermuda is required to submit an opinion of its approved loss reserve specialist with its statutory financial return in respect of its loss and loss expense provisions. The loss reserve specialist, who will normally be a qualified casualty actuary, must be approved by the BMA.

**Annual Financial Statements, Annual Statutory Financial Return and Annual Capital and Solvency Return.** Arch Re Bermuda must prepare annual statutory financial statements as prescribed in the Insurance Act with respect to both its general business and its long-term business. The statutory financial statements are distinct from the annual GAAP basis financial statements referred to below. The statutory financial return for a Class 4 insurer shall include a report of the approved independent auditor on the statutory financial statement of such insurer, solvency certificates, the statutory financial statements for the general business, the opinion of the loss reserve specialist and a schedule of reinsurance ceded. The statutory financial return for a Class C insurer shall include a report of the approved independent auditor on the statutory financial statements of such insurer, the statutory financial statements related to the long-term business, a declaration of the statutory ratios, the long-term business solvency certificate and a certificate from the approved actuary. Arch Re Bermuda is also required to file audited GAAP basis annual financial statements, which must be available to the public. In addition, Arch Re Bermuda is required to file a capital and solvency return in respect of its general business and long-term business. The capital and solvency return includes its relevant regulatory risk-based capital model, a schedule of fixed income investments by ratings categories, a schedule of net reserves for losses and loss expense provisions by line of business, a schedule of premiums written by line of business, a schedule of risk management and a schedule of fixed income securities, a schedule of commercial insurer’s solvency self assessment, a schedule of catastrophe risk return, a schedule of loss triangles or reconciliation of net loss reserves and a schedule of eligible capital.

**Minimum Solvency Margins.** Arch Re Bermuda, as a Class 4 insurer, must ensure that the value of its general business assets exceeds the amount of its general business liabilities by an amount greater than the prescribed minimum solvency margin ( and enhanced capital requirement pertaining to its general business. Accordingly, Arch Re Bermuda is required, with respect to its general business, to maintain a minimum solvency margin equal to the greatest of (i) \$100 million, (ii) 50% of net premiums written (being gross premiums written less any premiums ceded by Arch Re Bermuda, but Arch Re Bermuda may not deduct more than 25% of gross premiums when computing net

premiums written), (iii) 15% of net discounted aggregate losses and loss expense provisions and other insurance reserves and (iv) 25% of its enhanced capital requirement. As a long-term insurer, Arch Re Bermuda is also required, with respect to its long-term business, to maintain a minimum solvency margin equal to the greater of \$500,000 or 1.5% of its assets. For the purpose of this calculation, assets

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are defined as the total assets pertaining to its long-term business reported on the balance sheet in the relevant year less the amounts held in a segregated account.

**Enhanced Capital Requirement.** As a Class 4 insurer, Arch Re Bermuda is required to maintain available statutory capital and surplus pertaining to its general business at a level equal to or in excess of its enhanced capital requirement which is established by reference to either the Bermuda Solvency Capital Requirement model (“BSCR”) or an approved internal capital model. The BSCR is a risk-based capital model which provides a method for determining an insurer’s capital requirements (statutory capital and surplus) by taking into account the risk characteristics of different aspects of the insurer’s business. The BSCR model is a risk-based capital model which provides a method for determining an insurer’s capital requirements (statutory capital and surplus) by taking into account the risk characteristics of different aspects of the insurer’s business. While not specifically referred to in the Insurance Act, the BMA has also established a target capital level for each Class 4 insurer equal to 120% of its enhanced capital requirement. While a Class 4 insurer is not currently required to maintain its statutory capital and surplus at this level, the target capital level serves as an early warning tool for the BMA, and failure to maintain statutory capital at least equal to the target capital level will likely result in increased regulatory oversight. As a Class C insurer, Arch Re Bermuda is also required to maintain available statutory capital and surplus in respect of its long-term business at a level equal to or in excess of its long-term enhanced capital requirement which is established by reference to either the Class C BSCR model or an approved internal capital model. The long-term enhanced capital requirement is being phased in and shall be 50%, 75% and 100% of the calculated amount determined by the long-term BSCR model for financial years 2013, 2014 and 2015, respectively.

**Eligible Capital.** To enable the BMA to better assess the quality of the insurer’s capital resources, as a Class 4 insurer, Arch Re Bermuda is required to disclose the makeup of its capital in accordance with a 3-tiered capital system. Under this system, all of the insurer’s capital instruments will be classified as either basic or ancillary capital, which in turn will be classified into one of three tiers based on their “loss absorbency” characteristics. Highest quality capital will be classified Tier 1 Capital, lesser quality capital will be classified as either Tier 2 Capital or Tier 3 Capital. A minimum threshold of Tier 1 and maximum thresholds of Tier 2 and Tier 3 Capital used to support Arch Re Bermuda’s minimum solvency margin and enhanced capital requirement are specified under the rules. Tier 1, Tier 2 and Tier 3 Capital may, until January 1, 2024, include capital instruments that do not satisfy the requirement that the instrument be non-redeemable or settled only with the issuance of an instrument of equal or higher quality upon a breach, or if it would cause a breach, of the enhanced capital requirement. Where the BMA approved the use of certain instruments for capital purposes prior to the implementation of the eligible capital rules, the BMA’s consent must be obtained if such instruments are to remain eligible for use in satisfying the minimum solvency margin pertaining to its general business and its enhanced capital requirement.

**Minimum Liquidity Ratio.** Arch Re Bermuda is required to maintain a minimum liquidity ratio for general business equal to the value of its relevant assets at not less than 75% of the amount of its relevant liabilities. Relevant assets include cash and time deposits, quoted investments, unquoted bonds and debentures, first liens on real estate, investment income due and accrued, accounts and premiums receivable and reinsurance balances receivable. The relevant liabilities are total general business insurance reserves and total other liabilities less deferred income tax and sundry liabilities (by interpretation, those not specifically defined).

**Restrictions on Dividends and Distributions.** Arch Re Bermuda is prohibited from declaring or paying any dividends during any financial year if it is in breach of its enhanced capital requirement or its general business or long-term solvency margins or its minimum liquidity ratio or if the declaration or payment of such dividends would cause such a breach. If it has failed to meet its minimum solvency margins or minimum liquidity ratio on the last day of any financial year, Arch Re Bermuda will be prohibited, without the approval of the BMA, from declaring or paying any dividends during the next financial year. In addition, Arch Re Bermuda is prohibited from declaring or paying in any financial year dividends of more than 25% of its total statutory capital and surplus (as shown on its previous financial year’s statutory balance sheet) unless it files (at least seven days before payment of such dividends) with the BMA an affidavit stating that it will continue to meet the required margins.

**Reduction of Capital.** Without the approval of the BMA, Arch Re Bermuda is prohibited from reducing by 15% or more its total statutory capital as set out in its previous year’s financial statements and any application for such

approval must include an affidavit stating that it will continue to meet the required margins.

**Long-Term Business Fund.** An insurer carrying on long-term business is required to keep its accounts in respect of its long-term business separate from any accounts kept in respect of any other business. All receipts of its long-term business form part of its long-term business fund. No payment may be made directly or indirectly from an insurer's long-term

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business fund for any purpose other than a purpose related to the insurer's long-term business, unless such payment can be made out of any surplus certified by the insurer's approved actuary to be available for distribution otherwise than to policyholders. Arch Re Bermuda may not declare or pay a dividend to any person other than a policyholder unless the value of the assets in its long-term business fund, as certified by its approved actuary, exceeds the extent (as so certified) of the liabilities of the insurer's long-term business. In addition, the amount of such dividend shall not exceed the aggregate of that excess and any other funds properly available for payment of dividends, being funds arising out of business of the insurer other than its long-term business.

**Restrictions on Transfer of Business and Winding-Up.** As a long-term insurer, Arch Re Bermuda may only transfer long-term business, other than long-term business that is reinsurance business, with the sanction of the applicable Bermuda court. A long-term insurer may only be wound-up or liquidated by order of the applicable Bermuda court.

**Fit and Proper Controllers.** The BMA maintains supervision over the controllers of all registered insurers in Bermuda. A controller includes: (i) the managing director of the registered insurer or its parent company; (ii) the chief executive of the registered insurer or of its parent company; (iii) a shareholder controller; and (iv) any person in accordance with whose directions or instructions the directors of the registered insurer or of its parent company are accustomed to act. The definition of shareholder controller is set out in the Insurance Act, but generally refers to (i) a shareholder who holds 10% or more of the shares carrying rights to vote at a shareholders' meeting of the registered insurer or its parent company, or (ii) a shareholder who is entitled to exercise 10% or more of the voting power at any shareholders' meeting of such registered insurer or its parent company, or (iii) a shareholder who is able to exercise significant influence over the management of the registered insurer or its parent company by virtue of its shareholding or its entitlement to exercise, or control the exercise of, the voting power at any shareholders' meeting. A shareholder controller that owns 10% or more but less than 20% of the shares as described above is defined as a 10% shareholder controller; a shareholder controller that owns 20% or more but less than 33% of the shares as described above is defined as a 20% shareholder controller; a shareholder controller that owns 33% or more but less than 50% of the shares as described above is defined as a 33% shareholder controller; and a shareholder controller that owns 50% or more of the shares as described above is defined as a 50% shareholder controller.

Where the shares of the shareholder of a registered insurer, or the shares of its parent company, are traded on a recognized stock exchange, and such shareholder becomes a 10%, 20%, 33% or 50% shareholder controller of the insurer, that shareholder shall, within 45 days, notify the BMA in writing that such shareholder has become such a controller. Any person or entity who contravenes the Insurance Act by failing to give notice or knowingly becoming a shareholder controller before the required 45 days has elapsed is guilty of an offense and liable to a fine.

The BMA may file a notice of objection to any shareholder who has become a controller of any description where it appears that such shareholder is, or is no longer, a fit and proper shareholder to be a controller of the registered insurer. Any person who continues to be a controller of any description after having received a notice of objection shall be guilty of an offense.

**Notification by Registered Person of Change of Controllers and Officers.** All registered insurers are required to give written notice to the BMA of the fact that a person has become, or ceased to be, a controller or officer of the registered insurer within 45 days of becoming aware of such fact. An officer in relation to a registered insurer means a director, chief executive or senior executive performing duties of underwriting, actuarial, risk management, compliance, internal audit, finance or investment matters.

**Notification of Material Changes.** All registered insurers are required to give notice to the BMA of their intention to effect a material change within the meaning of the Insurance Act. For the purposes of the Insurance Act, the following changes are material: (i) the transfer or acquisition of insurance business being part of a scheme falling under section 25 of the Insurance Act or section 99 of the Companies Act; (ii) the amalgamation with or acquisition of another firm; (iii) engaging in unrelated business that is retail business, (iv) the acquisition of a controlling interest in an undertaking that is engaged in non-insurance business which offers services and products to persons who are not affiliates of the insurer, (v) outsourcing all or substantially all of the company's actuarial, risk management and internal audit functions, (vi) outsourcing all or a material part of an insurer's underwriting activity, (vii) the transfer other than by way of reinsurance of all or substantially all of a line of business, and (viii) the expansion into a material new line of business.

No registered insurer shall take any steps to give effect to a material change unless it has first served notice on the BMA that it intends to effect such material change and before the end of 14 days, either the BMA has notified such

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company in writing that it has no objection to such change or that period has lapsed without the BMA having issued a notice of objection. Any insurer who fails to give the required notice or which effects a material change, or allows such material change to be effected, before the prescribed period has elapsed or after having received a notice of objection from the BMA shall be guilty of an offense.

**Insurance Code of Conduct.** Arch Re Bermuda is subject to the Insurance Code of Conduct (the “Insurance Code”), which establishes duties and standards which must be complied with to ensure it implements sound corporate governance, risk management and internal controls. Failure to comply with the requirements under the Insurance Code will be a factor taken into account by the BMA in determining whether an insurer is conducting its business in a sound and prudent manner as prescribed by the Insurance Act. Failure to comply with the requirements of the Insurance Code could result in the BMA exercising its powers of intervention and will be a factor in calculating the operational risk charge applicable in accordance with that insurer’s risk based capital model.

**Cancellation of Insurer’s Registration.** An insurer’s registration may be canceled by the BMA on certain grounds specified in the Insurance Act, including failure of the insurer to comply with its obligations under the Insurance Act or if, in the opinion of the BMA, the insurer has not been carrying on business in accordance with sound insurance principles.

**Group Supervision.** The BMA acts as group supervisor of our group of insurance and reinsurance companies (“Group”) and has designated Arch Re Bermuda as the designated insurer (“Designated Insurer”). Pursuant to its powers under the Insurance Act, the BMA maintains a register of particulars for the Group detailing, among other things, the names and addresses of the Designated Insurer; each member company of the Group falling within the scope of supervision; the principal representative of the Group in Bermuda; other competent authorities supervising other member companies of the Group; and the Group auditors. The Designated Insurer must notify the BMA of any changes to the above details entered on the register of the Group.

As Group supervisor, the BMA performs a number of supervisory functions including (i) coordinating the gathering and dissemination of information which is of importance for the supervisory task of other competent authorities; (ii) carrying out a supervisory review and assessment of the Group; (iii) carrying out an assessment of the Group’s compliance with the rules on solvency, risk concentration, intra-Group transactions and good governance procedures; (iv) planning and coordinating, with other competent authorities, supervisory activities in respect of the Group, both as a going concern and in emergency situations; (v) coordinating any enforcement action that may need to be taken against the Group or any of its members; and (vi) planning and coordinating meetings of colleges of supervisors (consisting of insurance regulators) in order to facilitate the carrying out of the functions described above.

In carrying out its functions, the BMA makes rules for (i) assessing the financial situation and the solvency position of the Group and/or its members and (ii) regulating intra-Group transactions, risk concentration, governance procedures, risk management and regulatory reporting and disclosure.

**Group Solvency and Group Supervision.** The current supervision and solvency rules (together, “Group Rules”) apply to our Group so long as the BMA remains our group supervisor. The BMA has implemented and imposed many of the additional requirements described in this section as part of its efforts to gain equivalence under Solvency II. Due to the delays in the implementation of Solvency II in Europe, it is not expected that the European Commission will take a final decision on whether or not it will recognize the regime in Bermuda to be equivalent to that laid down in Solvency II until 2015, at the earliest. If the European Commission does not recognize the regime in Bermuda, this could mean that Arch Re Bermuda and its European Union-regulated affiliates may be subject to group supervision in Bermuda and the European Union, respectively. In addition, through the Group Rules, the BMA may take action which affects ACG. A summary of the Group Rules is set forth below.

**Annual Group Financial Statements.** The Group is required to prepare and submit, on an annual basis, financial statements prepared in accordance with either IFRS or GAAP, together with statutory financial statements. The financial statements must be audited annually by the Group’s approved auditor who is required to prepare an auditor’s report thereon in accordance with generally accepted auditing standards. In addition, the Group must prepare statutory financial statements (which include, in statutory form, a balance sheet, an income statement, a statement of capital and surplus, and notes thereto). The Designated Insurer is required to file with the BMA the statutory financial statements and the audited GAAP financial statements for the Group with the BMA within five months from the end of the



relevant financial year (unless specifically extended).

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Annual Group Statutory Financial Return and Annual Capital and Solvency Return. The Group is required to prepare an annual statutory financial return which shall include, among other things, a report of the approved auditor (for the GAAP financial statements only), a business solvency certificate, the opinion of an actuary (exempt for 2013 filing), a capital and solvency certificate (and a declaration signed by two directors of the parent company, one of which may be the chief executive) and either the chief risk or chief financial officer of the parent company declaring that the return fairly represents the financial condition of the Group in all material respects). Both the annual statutory financial return and the capital and solvency return must be submitted to the BMA by the Designated Insurer within five months after its financial year end (unless specifically extended).

Quarterly Group Financial Statements. The Designated Insurer is required to file quarterly financial returns for the Group with the BMA on or before the last day of the months May, August and November of each year. The quarterly Group financial returns consist of (i) quarterly unaudited (consolidated) financial statements for each financial quarter (which must minimally include a balance sheet and income statement and must also be recent and not reflect a financial position that exceeds two months) and (ii) a list and details of material intra-Group transactions and risk concentrations, details surrounding all intra-Group reinsurance and retrocession arrangements and details of the top ten counterparties and any other counterparty exposures exceeding 10% of Group's statutory capital and surplus.

Group Solvency Self Assessment ("GSSA"). The Group Rules require the board of directors of the parent company of the insurance group (the "Parent Board") to establish solvency self assessment procedures for the group that factors in all the foreseeable reasonably material risks. Such procedures should be carried out at least annually and assess the quality and quantity of the capital required to adequately cover the risks to which the insurance group is exposed. Such procedures must also be an integral part of the group's risk management framework and be reviewed and evaluated on a regular basis by the Parent Board. In particular, the GSSA should, among other things, demonstrate consideration of the relationship between risk management, the quality and quantity of capital resources, the impact of risk mitigation techniques and diversification and correlation effects between material risks; a description of the group's risk appetite; be forward-looking; include appropriate stress and scenario testing and appropriately reflect all assets and liabilities, material off-balance sheet arrangements, material intra group transactions, relevant managerial practices, systems and controls and a valuation basis that is aligned with the risk characteristics and business model of the group.

Group Minimum Solvency Margin ("Group MSM") and Group Enhanced Capital Requirement ("Group ECR"). Effective January 1, 2013, the Designated Insurer must ensure that the value of the Group's assets exceeds the amount of the Group's liabilities by the aggregate minimum margin of solvency of each qualifying member of the Group. A member is a qualifying member of the Group if it is subject to solvency requirements in the jurisdiction in which it is registered. Where the parent company exercises control in relation to any member of the group, the minimum margin of solvency of such member shall be its individual minimum solvency margin. Where the parent company exercises significant influence on any member of the Group, the minimum margin of solvency applicable to that member for purposes of calculating the Group MSM shall be an amount equal to the parent company's percentage shareholding in the member multiplied by that member's minimum margin of solvency. "Control" and "significant influence" shall be determined in accordance with either the IFRS or GAAP used to prepare the Group's IFRS or GAAP financial statements. The Group is required to maintain available group capital and surplus at a level equal to 50% of the Group ECR and this requirement will increase by increments of 10% in each of the following five years until 100% is required in 2018. This phasing in schedule is conditioned upon the BMA making further adjustments that would be either needed or appropriate once the effective date of Solvency II capital requirements is finalized.

Group Eligible Capital. To enable the BMA to better assess the quality of the group's capital resources, the Designated Insurer is required to disclose the makeup of the Group's capital in accordance with a 3-tiered capital system. Under the eligible capital requirements, all of the Group's capital instruments will be classified as either basic or ancillary capital which in turn will be classified into one of 3 tiers based on their "loss absorbency" characteristics. Highest quality capital will be classified Tier 1 Capital, lesser quality capital will be classified as either Tier 2 Capital or Tier 3 Capital. A minimum threshold of Tier 1 and maximum thresholds of Tier 2 and Tier 3 Capital used to satisfy the Group MSM and Group ECR requirements are specified under the rules. Tier 1, Tier 2 and Tier 3 Capital may, until January 1 2024, include capital instruments that do not satisfy the requirement that the instrument be non-redeemable

or settled only with the issuance of an instrument of equal or higher quality upon a breach, or if redemption would cause a breach, of the Group ECR.

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Group Governance. The Group Rules require the Parent Board to establish and effectively implement corporate governance policies and procedures, which it must be periodically review to ensure they continue to support the overall organizational strategy of the group. In particular, the Parent Board must:

- ensure that operational and oversight responsibilities of the group are clearly defined and documented and that the reporting of material deficiencies and fraudulent activities are transparent and devoid of conflicts of interest;
- establish systems for identifying on a risk sensitive basis those policies and procedures that must be reviewed annually and those policies and procedures that must be reviewed at other regular intervals;
- establish a risk management and internal controls framework and ensure that it is assessed regularly and such assessment is reported to the Parent Board and the chief and senior executives;
- establish and maintain sound accounting and financial reporting procedures and practices for the group; and
- establish and keep under review group functions relating to actuarial, compliance, internal audit and risk management functions which must address certain specific requirements as set out in the Group Rules.

Designated Insurer Notification Obligations. The Designated Insurer must notify the BMA upon reaching a view that there is a likelihood of the Group or any member of the Group becoming insolvent or that a reportable “event” has, to the Designated Insurer’s knowledge, occurred or is believed to have occurred. Examples of a reportable “event” include a failure by the Group or any member of the Group to comply substantially with a requirement imposed upon it under the Group Rules relating to its solvency position, governance and risk management or supervisory reporting and disclosures; failure by the Designated Insurer to comply with a direction given to it under the Insurance Act in respect of the group or any of its members; a criminal conviction imposed upon any member of the Group whether in Bermuda or abroad; material breaches of any statutory requirements by any member of the Group located outside of Bermuda that could lead to supervisory or enforcement action by a competent authority; or a significant loss that is reasonably likely to cause the Group to be unable to comply with its Group ECR. Within 30 days of such notification to the BMA, the Designated Insurer must furnish the BMA with a written report setting out all the particulars of the case that are available to it and within 45 days it must furnish a Group capital and solvency return that reflects the Group ECR that has been prepared using post-loss data and unaudited financial statements for such period as the BMA shall require together with a declaration of solvency in respect thereof. The Designated Insurer must also notify the BMA in writing within 14 days of becoming aware that a requirement of the Group Rules conflicts with the laws of another jurisdiction where a member of the Group operates.

The following events constitute material changes that must be notified to the BMA: (i) the amalgamation with or acquisition of another firm, (ii) engaging in unrelated business that is retail business, (iii) the acquisition of a controlling interest in an undertaking that is engaged in non-insurance business which offers services and products to persons who are not affiliates, (iv) outsourcing all or substantially all of the actuarial, risk management and internal audit functions, (v) outsourcing all or a material part of underwriting activities, (vi) the transfer other than by way of reinsurance of all or substantially all of a line of business, and (vii) the expansion into a material new line of business. The Designated Insurer is required to give written notice to the BMA of the fact that a person has become, or ceased to be, a controller or officer of the parent company of the Group within 45 days of becoming aware of such fact. An officer in relation to the parent company of the Group means a director, chief executive or senior executive performing duties of underwriting, actuarial, risk management, compliance, internal audit, finance or investment matters.

If it appears to the BMA that the Designated Insurer is in breach of any provision of the Insurance Act or the Group Rules, the BMA may give the Designated Insurer such directions as appear to the BMA to be desirable for safeguarding the interests of policyholders and potential policyholders of the Group.

BMA’s Powers of Intervention, Obtaining Information, Reports and Documents and Providing Information to other Regulatory Authorities. The BMA may, by notice in writing served on a registered person or a Designated Insurer, require the registered person or a Designated Insurer to provide such information and/or documentation as the BMA may reasonably require with respect to matters that are likely to be material to the performance of its supervisory functions under the Insurance Act. In addition, it may require such person’s auditor, underwriter, accountant or any other person with relevant professional skill to prepare a report on any aspect pertaining thereto. In the case of a report, the person so appointed shall immediately give the BMA written notice of any fact or matter of which he

becomes aware or which indicates to him that any condition attaching to his registration under the Insurance Act is not or has not or may not be or may not have been fulfilled and that such matters are likely to be material to the performance of its functions under the

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Insurance Act. If it appears to the BMA to be desirable in the interests of the clients of a registered person or relevant insurance group, the BMA may also exercise these powers in relation to subsidiaries, parent companies and other affiliates of the registered person or designated insurer.

If the BMA deems it necessary to protect the interests of the policyholders or potential policyholders of an insurer or insurance group, it may appoint one or more competent persons to investigate and report on the nature, conduct or state of the insurer's or the insurance group's business, or any aspect thereof, or the ownership or control of the insurer or insurance group. If the person so appointed thinks it necessary for the purposes of his investigation, he may also investigate the business of any person who is or has been at any relevant time, a member of the insurance group or of a partnership of which the person being investigated is a member. In this regard, it shall be the duty of every person who is or was a controller, officer, employee, agent, banker, auditor, accountant, barrister and attorney or insurance manager to produce to the person appointed such documentation as he may reasonably require for purposes of his investigation, and to attend and answer questions relevant to the investigation and to otherwise provide such assistance as may be necessary in connection therewith.

Where the BMA suspects that a person has failed to properly register under the Insurance Act or that a registered person or designated insurer has failed to comply with a requirement of the Insurance Act or that a person is not, or is no longer, a fit and proper person to perform functions in relation to a regulated activity, it may, by notice in writing, carry out an investigation into such person (or any other person connected thereto). In connection therewith, the BMA may require every person who is or was a controller, officer, employee, agent, banker, auditor, accountant, barrister and attorney or insurance manager to make a report and produce such documents in his care, custody and control and to attend before the BMA to answer questions relevant to the BMA's investigation and to take such actions as the BMA may direct. The BMA may also enter any premises for the purposes of carrying out its investigation and may petition the court for a warrant if it believes a person has failed to comply with a notice served on him or there are reasonable grounds for suspecting the completeness of any information or documentation produced in response to such notice or that its directions will not be complied with or that any relevant documents would be removed, tampered with or destroyed.

The BMA has the power to assist other regulatory authorities, including foreign insurance regulatory authorities, with their investigations involving insurance and reinsurance companies in Bermuda if it is satisfied that the assistance being requested is in connection with the discharge of regulatory responsibilities and that such cooperation is in the public interest. The grounds for disclosure by the BMA to a foreign regulatory authority without consent of the insurer are limited and the Insurance Act provides for sanctions for breach of the statutory duty of confidentiality.

### Certain Other Bermuda Law Considerations

ACGL and Arch Re Bermuda are incorporated in Bermuda as "exempted companies." As a result, they are exempt from Bermuda laws restricting the percentage of share capital that may be held by non-Bermudians, but they may not participate in certain business transactions, including (i) the acquisition or holding of land in Bermuda (except that required for their business and held by way of lease or tenancy for terms of not more than 50 years) without the express authorization of the Bermuda legislature, (ii) the taking of mortgages on land in Bermuda to secure an amount in excess of \$50,000 without the consent of the Minister of Finance, (iii) the acquisition of any bonds or debentures secured by any land in Bermuda, other than certain types of Bermuda government securities or (iv) the carrying on of business of any kind in Bermuda, except in furtherance of their business carried on outside Bermuda or under license granted by the Minister of Finance. While an insurer is permitted to reinsure risks undertaken by any company incorporated in Bermuda and permitted to engage in the insurance and reinsurance business, generally it is not permitted without a special license granted by the Minister of Finance to insure Bermuda domestic risks or risks of persons of, in or based in Bermuda.

ACGL and Arch Re Bermuda also need to comply with the provisions of The Bermuda Companies Act 1981, as amended (the "Companies Act") regulating the payment of dividends and making distributions from contributed surplus. A company shall not declare or pay a dividend, or make a distribution out of contributed surplus, if there are reasonable grounds for believing that: (i) the company is, or would after the payment be, unable to pay its liabilities as they become due; or (ii) the realizable value of the company's assets would thereby be less than its liabilities. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition,

Liquidity and Capital Resources—Liquidity and Capital Resources” and note 23, “Statutory Information,” of the notes accompanying our financial statements.

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Under Bermuda law, only persons who are Bermudians, spouses of Bermudians, holders of a permanent resident’s certificate, holders of a working resident’s certificate or persons who are exempt pursuant to the Incentives for Job Makers Act 2011, as amended (“exempted persons”) may engage in gainful occupation in Bermuda without an appropriate governmental work permit. Our success may depend in part upon the continued services of key employees in Bermuda. Certain of our current key employees are not exempted persons and, as such, require specific approval to work for us in Bermuda. A work permit may be granted or extended upon showing that, after proper public advertisement, no exempted person is available who meets the minimum standards reasonably required by the employer.

U.S. Insurance Regulation

General. In common with other insurers, our U.S. based subsidiaries are subject to extensive governmental regulation and supervision in the various states and jurisdictions in which they are domiciled and licensed and/or approved to conduct business. The laws and regulations of the state of domicile have the most significant impact on operations. This regulation and supervision is designed to protect policyholders rather than investors. Generally, regulatory authorities have broad regulatory powers over such matters as licenses, standards of solvency, premium rates, policy forms, marketing practices, claims practices, investments, security deposits, methods of accounting, form and content of financial statements, reserves and provisions for unearned premiums, unpaid losses and loss adjustment expenses, reinsurance, minimum capital and surplus requirements, dividends and other distributions to shareholders, periodic examinations and annual and other report filings. In addition, transactions among affiliates, including reinsurance agreements or arrangements, as well as certain third party transactions, require prior regulatory approval from, or prior notice to and no disapproval by, the applicable regulator under certain circumstances. Certain insurance regulatory requirements are highlighted below. In addition, regulatory authorities conduct periodic financial, claims and market conduct examinations. Arch Insurance Company Europe is also subject to certain governmental regulation and supervision in the states where it writes excess and surplus lines insurance.

In addition to regulation applicable generally to U.S. insurance and reinsurance companies, our U.S. mortgage insurance operations are affected by federal and state regulation relating to mortgage insurers, mortgage lenders, and the origination, purchase and sale of residential mortgages. The private mortgage insurance industry is, and likely will continue to be, subject to substantial federal and state regulation, which has increased in recent years as a result of the past deterioration of the housing and mortgage markets in the U.S. Increased federal or state regulatory scrutiny could lead to new legal precedents, new regulations, new practices, or regulatory actions or investigations, which could adversely affect our financial condition and operating results.

Credit for Reinsurance. Arch Re U.S. is subject to insurance regulation and supervision that is similar to the regulation of licensed primary insurers. However, except for certain mandated provisions that must be included in order for a ceding company to obtain credit for reinsurance ceded, the terms and conditions of reinsurance agreements generally are not subject to regulation by any governmental authority. This contrasts with admitted primary insurance policies and agreements, the rates and terms of which generally are regulated by state insurance regulators. As a practical matter, however, the rates charged by primary insurers do have an effect on the rates that can be charged by reinsurers. Certain provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (the “Dodd-Frank Act”), which became effective on July 21, 2011, provide that only the state in which a primary insurer is domiciled may regulate the financial statement credit for reinsurance taken by that primary insurer; other states will no longer be able to impose their own credit for reinsurance laws on primary insurers that are only licensed in such other states. A primary insurer ordinarily will enter into a reinsurance agreement only if it can obtain credit for the reinsurance ceded on its U.S. statutory-basis financial statements. In general, credit for reinsurance is allowed in the following circumstances:

- if the reinsurer is licensed in the state in which the primary insurer is domiciled;
- if the reinsurer is an “accredited” or otherwise approved reinsurer in the state in which the primary insurer is domiciled;
- in some instances, if the reinsurer (a) is domiciled in a state that is deemed to have substantially similar credit for reinsurance standards as the state in which the primary insurer is domiciled and (b) meets certain financial requirements; or





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if none of the above applies, to the extent that the reinsurance obligations of the reinsurer are collateralized appropriately, typically through the posting of a letter of credit for the benefit of the primary insurer or the deposit of assets into a trust fund established for the benefit of the primary insurer.

Some states have adopted provisions of the National Association of Insurance Commissioners (“NAIC”) adopted amendments to its Credit for Reinsurance Model Law and Regulation (the “NAIC Credit for Reinsurance Model Act”) that allow full credit to U.S. ceding insurers for reinsurance ceded to qualified non-U.S. reinsurers (called “certified reinsurers”) based upon less than 100% collateralization. Under those provisions, collateral requirements may be reduced for international reinsurers meeting certain criteria as to financial strength and reliability that are domiciled in countries that are found to have strong systems of domestic insurance regulation. Applicants for “certified reinsurer” designation must agree to certain financial reporting, consent to jurisdiction and consent to provide collateral for the full amount of their assumed liabilities in specified circumstances. Arch Re Bermuda is approved in 11 states to post reduced collateral and is expected to be designated as a “certified reinsurer” in other U.S. states.

As a result of the requirements relating to the provision of credit for reinsurance, Arch Re U.S. and Arch Re Bermuda are indirectly subject to certain regulatory requirements imposed by jurisdictions in which ceding companies are domiciled.

Arch Re U.S. is licensed or is an accredited or otherwise approved reinsurer in 50 states and the District of Columbia and the province of Ontario, Canada. Arch Insurance is licensed as an insurer in 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands and Guam. Arch Specialty is licensed in one state and approved as an excess and surplus lines insurer in 49 states, the District of Columbia, Puerto Rico and the U.S. Virgin Islands. Arch E&S is licensed in one state and approved as an excess and surplus lines insurer in 47 states and the District of Columbia. Arch Indemnity is licensed as an insurer in 49 states and the District of Columbia. Arch Insurance Company Europe is eligible to write excess and surplus lines insurance in 50 states, the District of Columbia, the U.S. Virgin Islands, Guam, the Northern Mariana Islands and American Samoa by virtue of its listing on the NAIC International Insurers Department’s Quarterly Listing of Alien Insurers pursuant to the Nonadmitted and Reinsurance Reform Act of 2010. Neither Arch Re Bermuda nor Arch Re Europe expects to become licensed, accredited or so approved in any U.S. jurisdiction.

Certain state regulatory agencies conduct investigations from time to time of insurance and reinsurance companies’ compliance with various federal and state laws. On June 25, 2013, the New York Department of Financial Services sent a letter to non-U.S. reinsurers approved to post reduced collateral (see “Regulation-U.S. Insurance Regulation-Credit for Reinsurance”), including Arch Re Bermuda, seeking information concerning such reinsurers’ compliance with the Iran Freedom and Counter-Proliferation Act of 2012. We cannot predict the effect or outcome of these investigations on the insurance or reinsurance industry, the regulatory framework, or our business, financial condition and results of operations.

**Holding Company Acts.** All states have enacted legislation that regulates insurance holding company systems. These regulations generally provide that each insurance company in the system is required to register with the insurance department of its state of domicile and furnish information concerning the operations of companies within the holding company system which may materially affect the operations, management or financial condition of the insurers within the system. All transactions within a holding company system affecting insurers must be fair and reasonable. Notice to the state insurance departments is required prior to the consummation of certain material transactions between an insurer and any entity in its holding company system. In addition, certain of such transactions cannot be consummated without the applicable insurance department’s prior approval, or its failure to disapprove after receiving notice. The holding company acts also prohibit any person from directly or indirectly acquiring control of a U.S. insurance company unless that person has filed an application with specified information with the insurance company’s domiciliary commissioner and has obtained the commissioner’s prior approval. Under most states’ statutes, including Delaware and Missouri (the states of domicile of Arch’s U.S. insurance subsidiaries), acquiring 10% or more of the voting securities of an insurance company or its parent company is presumptively considered an acquisition of control of the insurance company, although such presumption may be rebutted. Accordingly, any person or entity that acquires, directly or indirectly, 10% or more of the voting securities of ACGL without the prior approval of the commissioner will be in violation of these laws and may be subject to injunctive action requiring the disposition or

seizure of those securities by the commissioner or prohibiting the voting of those securities, or to other actions that may be taken by the commissioner. In 2010, the NAIC adopted amendments to the Insurance Holding Company System Regulatory Act and Regulation, which, among other changes, introduce the concept of “enterprise risk” within an insurance holding company system. If and when the amendments are adopted by a particular state, the amended Insurance Holding Company System Regulatory Act and Regulation would impose more extensive informational requirements on parents and other affiliates of licensed insurers or reinsurers with the purpose of protecting them from enterprise risk, including requiring an annual enterprise risk report by the ultimate

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controlling person identifying the material risks within the insurance holding company system that could pose enterprise risk to the licensed companies. The amended Insurance Holding Company System Regulatory Act also requires any controlling person of a U.S. insurance company seeking to divest its controlling interest in the insurance company to file with the commissioner a confidential notice of the proposed divestiture at least 30 days prior to the cessation of control; after receipt of the notice, the commissioner shall determine those instances in which the parties seeking to divest or to acquire a controlling interest will be required to file for or obtain approval of the transaction. The amended Insurance Holding Company System Regulatory Act and Regulation must be adopted by the individual states for the new requirements to apply to U.S. domestic insurers and reinsurers. To date, only 38 states, including states in which our U.S.-based insurance subsidiaries are domiciled or licensed, have enacted legislation adopting the amended Insurance Holding Company System Regulatory Act in some form.

**Enterprise Risk.** The NAIC has increased its focus on risks within an insurer's holding company system that may pose enterprise risk to the insurer. "Enterprise risk" is defined as any activity, circumstance, event or series of events involving one or more affiliates of an insurer that, if not remedied promptly, is likely to have a material adverse effect upon the financial condition or the liquidity of the insurer or its insurance holding company system as a whole. As noted above, in 2010, the NAIC adopted amendments to its Model Insurance Holding Company System Regulatory Act and Regulation, which include, among other amendments, a requirement for the ultimate controlling person to file an enterprise risk report annually. In 2012, the NAIC adopted the Risk Management and Own Risk and Solvency Assessment ("ORSA") Model Act, which requires domestic insurers to maintain a risk management framework and establishes a legal requirement for domestic insurers to conduct an ORSA in accordance with the NAIC's ORSA Guidance Manual. The ORSA Model Act provides that domestic insurers, or their insurance group, must regularly conduct an ORSA consistent with a process comparable to the ORSA Guidance Manual process. The ORSA Model Act also provides that, no more than once a year, an insurer's domiciliary regulator may request that an insurer submit an ORSA summary report, or any combination of reports that together contain the information described in the ORSA Guidance Manual, with respect to the insurer and/or the insurance group of which it is a member. If and when the ORSA Model Act is adopted by an individual state, the state may impose additional internal review and regulatory filing requirements on licensed insurers and their parent companies.

**Regulation of Dividends and Other Payments from Insurance Subsidiaries.** The ability of an insurer to pay dividends or make other distributions is subject to insurance regulatory limitations of the insurance company's state of domicile. Generally, such laws limit the payment of dividends or other distributions above a specified level. Dividends or other distributions in excess of such thresholds are "extraordinary" and are subject to prior regulatory approval. Such dividends or distributions may be subject to applicable withholding or other taxes. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources—Liquidity and Capital Resources" and note 23, "Statutory Information," of the notes accompanying our financial statements.

**Insurance Regulatory Information System Ratios.** The NAIC Insurance Regulatory Information System ("IRIS") was developed by a committee of state insurance regulators and is intended primarily to assist state insurance departments in executing their statutory mandates to oversee the financial condition of insurance companies operating in their respective states. IRIS identifies 13 industry ratios (referred to as "IRIS ratios") and specifies "usual values" for each ratio. Departure from the usual values of the IRIS ratios can lead to inquiries from individual state insurance commissioners as to certain aspects of an insurer's business. Certain of our U.S.-based subsidiaries generate IRIS ratios that are outside of the usual values. To date, none of these subsidiaries has received any notice of regulatory review regarding the IRIS ratios but there is no assurance that we may not be notified in the future.

**Accreditation.** The NAIC has instituted its Financial Regulation Accreditation Standards Program ("FRASP") in response to federal initiatives to regulate the business of insurance. FRASP provides a set of standards designed to establish effective state regulation of the financial condition of insurance companies. Under FRASP, a state must adopt certain laws and regulations, institute required regulatory practices and procedures, and have adequate personnel to enforce such items in order to become an "accredited" state. If a state is not accredited, other states may not accept certain financial examination reports of insurers prepared solely by the regulatory agency in such unaccredited state. The respective states in which our insurance and reinsurance subsidiaries are domiciled are accredited states.

Risk-Based Capital Requirements. In order to enhance the regulation of insurer solvency, the NAIC adopted in December 1993 a formula and model law to implement risk-based capital requirements for property and casualty insurance companies. These risk-based capital requirements are designed to assess capital adequacy and to raise the level of protection that statutory surplus provides for policyholder obligations. The risk-based capital model for property and casualty insurance companies measures three major areas of risk facing property and casualty insurers:

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underwriting, which encompasses the risk of adverse loss developments and inadequate pricing;  
declines in asset values arising from credit risk; and  
declines in asset values arising from investment risks.

An insurer will be subject to varying degrees of regulatory action depending on how its statutory surplus compares to its risk-based capital calculation. For equity investments in an insurance company affiliate, the risk-based capital requirements for the equity securities of such affiliate would generally be our U.S.-based subsidiaries' proportionate share of the affiliate's risk-based capital requirement.

Under the approved formula, an insurer's total adjusted capital is compared to its authorized control level risk-based capital. If this ratio is above a minimum threshold, no company or regulatory action is necessary. Below this threshold are four distinct action levels at which a regulator can intervene with increasing degrees of authority over an insurer as the ratio of surplus to risk-based capital requirement decreases. The four action levels include:

insurer is required to submit a plan for corrective action;  
insurer is subject to examination, analysis and specific corrective action;  
regulators may place insurer under regulatory control; and  
regulators are required to place insurer under regulatory control.

Each of our U.S. subsidiaries' surplus (as calculated for statutory purposes) is above the risk-based capital thresholds that would require either company or regulatory action.

Guaranty Funds and Assigned Risk Plans. Most states require all admitted insurance companies to participate in their respective guaranty funds which cover certain claims against insolvent insurers. Solvent insurers licensed in these states are required to cover the losses paid on behalf of insolvent insurers by the guaranty funds and are generally subject to annual assessments in the states by the guaranty funds to cover these losses. Participation in state-assigned risk plans may take the form of reinsuring a portion of a pool of policies or the direct issuance of policies to insureds. The calculation of an insurer's participation in these plans is usually based on the amount of premium for that type of coverage that was written by the insurer on a voluntary basis. Assigned risk pools tend to produce losses which result in assessments to insurers writing the same lines on a voluntary basis. Mortgage guaranty insurance, among other lines of business, is typically exempt from participation in guaranty funds and assigned risk plans.

Federal Regulation. Although state regulation is the dominant form of regulation for insurance and reinsurance business, the federal government in recent years has shown some concern over the adequacy of state regulation. It is not possible to predict the future impact of any potential federal regulations or other possible laws or regulations on our U.S. based subsidiaries' capital and operations, and such laws or regulations could materially adversely affect their business. In addition, a number of federal laws affect and apply to the insurance industry, including various privacy laws and the economic and trade sanctions implemented by the Office of Foreign Assets Control ("OFAC"). OFAC maintains and enforces economic sanctions against certain foreign countries and groups and prohibits U.S. persons from engaging in certain transactions with certain persons or entities. OFAC has imposed civil penalties on persons, including insurance and reinsurance companies, arising from violations of its economic sanctions program.

Certain federal laws, such as the Real Estate Settlement Procedures Act of 1974 ("RESPA") and the Homeowners Protection Act of 1998 ("HOPA"), directly impact mortgage insurers. Other federal law and regulation relating to mortgage lenders and servicers, the GSEs, the FHA and the VA may also affect mortgage insurers and the demand for private mortgage insurance. Such laws include the Equal Credit Opportunity Act, the Fair Housing Act, the Truth In Lending Act ("TILA"), the Fair Credit Reporting Act of 1970 ("FCRA"), and the Fair Debt Collection Practices Act. Among other things, these laws and their implementing regulations prohibit payments for referrals of settlement service business, require fairness and non-discrimination in granting or facilitating the granting of credit, govern the circumstances under which companies may obtain and use consumer credit information, define the manner in which companies may pursue collection activities, and require disclosures of the cost of credit and provide for other consumer protections.

The Dodd-Frank Wall Street Reform and Consumer Protection Act. The Dodd-Frank Act created the Federal Insurance Office ("FIO") within the Department of Treasury, which is not a federal regulator or supervisor of insurance, but monitors the insurance industry for systemic risk, administers the Terrorism Risk Insurance Program Reauthorization Act of



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2015 (“TRIPRA”), consults with the states regarding insurance matters and develops federal policy on aspects of international insurance matters. In addition, FIO is authorized to assist the Treasury Secretary in negotiating “covered agreements” between the U.S. and one or more foreign governments or regulatory authorities that address insurance prudential measures. Where a state law is inconsistent with a “covered agreement” and provides less favorable treatment to foreign insurers than U.S. companies, the FIO Director may preempt conflicting state law. In 2013, the FIO issued two reports relating to the insurance industry, one on modernization of the insurance regulatory system and one on the impact of Part II of the Nonadmitted and Reinsurance Reform Act of 2010. In its December 2013 report on modernization of the insurance regulatory system, the FIO recommended that federal standards and oversight for mortgage insurers be developed and implemented. In December 2014, the FIO issued a report on the vital role that the global reinsurance market plays in supporting insurance in the United States. The impact that these reports will have on the regulation of insurance, if any, is yet to be determined. The Dodd-Frank Act also created a uniform system for non-admitted insurance premium tax payments based on the home state of the policyholder and provides for single state regulation for financial solvency and credit for reinsurance as discussed above.

The Dodd-Frank Act established the Consumer Finance Protection Bureau (“CFPB”) to regulate the offering and provision of consumer financial products and services under federal law, including residential mortgages. Pursuant to the Dodd-Frank Act, the CFPB is charged with rulemaking and enforcement with respect to enumerated consumer laws, including RESPA, TILA, HOPA, the Secure and Fair Enforcement for Mortgage Licensing Act (“SAFE Act”) and FCRA. The Dodd-Frank Act also granted to the CFPB certain supervisory powers with respect to “covered persons” and “service providers,” as defined by the Act. The CFPB recently published residential mortgage servicing rules pursuant to TILA and RESPA. The CFPB has issued Civil Investigative Demands to several other mortgage insurers and in 2013 the United States District Court for the Southern District of Florida approved consent orders issued by the CFPB against five other mortgage insurers relating to captive reinsurers.

Under the Dodd-Frank Act, the CFPB is authorized to issue regulations governing a loan originator's determination that, at the time a loan is originated, the consumer has a reasonable ability to repay the loan (“ATR”). The CFPB issued final ATR regulations, effective January 2014, containing detailed requirements on how lenders must verify a borrower's ability to repay a covered mortgage loan. The Dodd-Frank Act provides for a statutory presumption that a borrower will have the ability to repay a loan if the loan has characteristics satisfying the definition of a qualified mortgage (“QM”) as contained in the CFPB's ATR regulations. Creditors who violate the ATR rule can be liable for interest and fees paid by the borrower as well as actual and statutory damages. A borrower may assert such a violation as a defense by recoupment or set off in a foreclosure action.

Under the CFPB's ATR rule, a loan is deemed to be a QM if it meets certain requirements, including:

- the term of the mortgage is 30 years or less;
- there is no negative amortization, interest only or balloon features;
- the lender documents the loan in accordance with requirements;
- the total “points and fees” do not exceed certain thresholds, generally 3%; and
- the total debt-to-income ratio does not exceed 43%.

The QM definition provides a “safe harbor” for QM loans with annual percentage rates, or APRs, below the threshold of 150 basis points over the Average Prime Offer Rate and a “rebuttable presumption” of compliance with ATR requirements for QM loans with an APR above that threshold.

The ATR rule also provides for a second, temporary category that allows for more flexible underwriting requirements. To qualify under the temporary QM definition, a mortgage must meet the general product feature requirements and be eligible to be purchased or guaranteed by the GSEs while they remain under conservatorship, FHA, VA, the Department of Agriculture or the Rural Housing Service. This temporary QM category expires on January 10, 2021, or earlier to the extent that the conservatorship of the Federal Housing Finance Agency (“FHFA”) ends or federal agencies issue their own qualified mortgage rules. In May 2013, the FHFA directed the GSEs to limit purchases after January 10, 2014 to loans that meet certain QM criteria. The U.S. Department of Housing and Urban Development (“HUD”) proposed a separate definition of a qualified mortgage for loans insured by the FHA, which became effective on January 10, 2014. HUD's QM definition is less restrictive than the CFPB's definition in certain respects. To the extent that government agencies adopt





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their own definitions of a qualified mortgage and those definitions are more favorable to lenders than those applicable to the market in which private mortgage insurers participate, our business may be adversely affected.

Under the QM Rule, mortgage insurance premiums that are payable by the consumer at or prior to consummation of the loan are includible in the calculation of points and fees unless, and to the extent that, they are less than or equal to those charged by FHA and are automatically refundable on a pro rata basis upon satisfaction of the loan.

Borrower-paid single premium products, both refundable and non-refundable, may be included within the points and fees calculation under the QM Rule. Because inclusion of mortgage insurance premiums in the calculation of points and fees will reduce the capacity for other points and fees in order for lenders to comply with the QM Rule, mortgage originators may be less likely to use those mortgage insurance products. The treatment of mortgage insurance premiums as a component of the points and fees calculation, or the potential indirect impact of mortgage insurance premiums on the total points and fees, may be factors as to whether a loan is in the safe harbor, receives a rebuttable presumption of ability to repay, or receives no presumption.

Because of the QM evidentiary standard that gives presumption of compliance, we believe that most newly-originated mortgages are QMs. Our operating results could be adversely impacted if the QM regulations reduce the size of the origination market, reduce the willingness of lenders to extend low down payment credit, favor alternatives to private mortgage insurance such as government mortgage insurance programs, or change the mix of mortgage insurance business in ways that may be unfavorable to us.

The Dodd-Frank Act generally requires an issuer of an asset-backed security or initiator of an asset-backed transaction (a “securitizer”) to retain at least 5% of the risk associated with securitized mortgage loans, although in some cases the retained risk may be allocated between the securitizer and the mortgage originator. Lenders that originate loans that are sold to the GSEs while they are in conservatorship will not be required to retain risk associated with those loans.

Changes in the conservatorship status of the GSEs or capital support provided to the GSEs by the U.S. government could impact the manner in which the credit risk retention rules apply to the GSEs.

This risk-retention requirement also does not apply to a mortgage loan that is a qualified residential mortgage (“QRM”), or that is insured or guaranteed by FHA or certain other federal agencies. In October 2014, federal regulators issued a risk-retention rule that generally defines a QRM as a mortgage meeting the requirements of a QM. As the risk retention rule treats all QM loans as QRMs, low down payment loans with private mortgage insurance that do not meet the requirements of the QM rule can only be securitized with a risk retention requirement, which may deter their origination and adversely affect our business.

The Dodd-Frank Act amended and expanded mortgage servicing requirements under TILA and RESPA. The CFPB published final regulations implementing these mortgage servicing requirements effective January 2014. New loss mitigation procedures include the prohibition of commencement of foreclosure by the loan holder or servicer until 120 days after the borrower's delinquency. This and other loss mitigation requirements could cause delays in default servicing, cause the servicing of mortgage loans to become more costly, and could have an adverse impact on the timely resolution of mortgage insurance claims.

The Homeowners Protection Act of 1998. HOPA provides for the automatic termination, or cancellation upon a borrower's request, of private mortgage insurance upon satisfaction of certain conditions. HOPA requires that lenders give borrowers certain notices with regard to the automatic termination or cancellation of mortgage insurance. These provisions apply to borrower-paid mortgage insurance for purchase money, refinance and construction loans secured by the borrower's principal dwelling. FHA and VA loans are not covered by HOPA. Under HOPA, automatic termination of mortgage insurance generally occurs when the mortgage is first scheduled to reach a loan-to-value of 78% of the home's original value, assuming that the borrower is current on the required mortgage payments. A borrower who has a “good payment history,” as defined by HOPA, may generally request cancellation of mortgage insurance when the loan-to-value is first scheduled to reach 80% of the home's original value or when actual payments reduce the loan balance to 80% of the home's original value.

Real Estate Settlement Procedures Act of 1974. Subject to limited exceptions, RESPA prohibits persons from giving or accepting anything of value in connection with the referral of a settlement service. Mortgage insurance generally has been considered to be a “settlement service” for purposes of RESPA. RESPA authorizes the CFPB, the Department of Justice, state attorneys general and state insurance commissioners to bring civil enforcement actions, and also

provides for criminal penalties and private rights of action. In the past, a number of lawsuits have challenged the actions of private mortgage insurers under RESPA, alleging that the insurers violated the referral fee prohibition by entering into captive

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reinsurance arrangements or providing products or services to mortgage lenders at improperly reduced prices in return for the referral of mortgage insurance, including the provision of contract underwriting services. In addition to these private lawsuits, in 2013, the United States District Court for the Southern District of Florida approved consent orders issued by the CFPB against five other private mortgage insurers relating to captive reinsurance. Under the settlements, the mortgage insurers will end the challenged practices, pay monetary penalties, and be subject to monitoring by the CFPB and required to make reports to the CFPB in order to ensure their compliance with the provisions of the orders. Home Mortgage Disclosure Act of 1975. The Home Mortgage Disclosure Act of 1975 (“HMDA”) requires most mortgage originators to collect and report to the CFPB data relating to a mortgage loan applicant's race, nationality, gender, marital status, and census tract. Mortgage insurers are not required pursuant to law or regulation to report HMDA data, although, under the laws of several states, mortgage insurers are currently prohibited from discriminating on the basis of certain classifications. In 2014, mortgage insurers, through an industry trade group, voluntarily reported the same data on loans submitted for insurance as is required for most mortgage lenders under HMDA.

Secure and Fair Enforcement for Mortgage Licensing Act. The SAFE Act was enacted in 2008 to enhance consumer protection and reduce fraud by encouraging states to establish minimum standards for the licensing and registration of state-licensed mortgage loan originators. The SAFE Act also requires the establishment of a nationwide mortgage licensing system and registry for the residential mortgage industry. Administration and enforcement of the SAFE Act lies with the CFPB. Arch Fulfillment Operations Inc. (“AFOI”), as an entity engaged in the business of providing contract underwriting services to residential lenders, may be required to obtain certain mortgage lender licenses in order to comply with state specific SAFE Act requirements. AFOI is obtaining licenses in certain states.

Fair Credit Reporting Act. The FCRA imposes restrictions on the permissible use of credit report information. FCRA has been interpreted by some FTC staff and federal courts to require mortgage insurance companies to provide “adverse action” notices to consumers in the event an application for mortgage insurance is declined or offered at less than the best available rate for the loan program applied for on the basis of a review of the consumer's credit. Arch MI U.S. provides notices as required. Although Arch MI U.S. has not been involved, there has been class action litigation over FCRA adverse action notices involving the mortgage industry, including court-approved settlements.

Terrorism Risk Insurance Program Reauthorization Act of 2015. The Terrorism Risk Insurance Act of 2002, which was previously amended and extended by the Terrorism Risk Insurance Extension Act of 2005 and the Terrorism Risk Insurance Program Reauthorization Act of 2007, was amended and extended again by TRIPRA through December 31, 2020. TRIPRA provides a federal backstop for insurance related losses resulting from certain acts of terrorism on U.S. soil or against certain U.S. air carriers, vessels or foreign missions. Under TRIPRA, all U.S. based property and casualty insurers are required to make terrorism insurance coverage available in specified commercial property and casualty insurance lines. Under TRIPRA, the federal government will pay 85% of covered losses after after (i) aggregate industry insured losses resulting from the act of terrorism exceeds a statutorily prescribed program trigger, and (ii) an insurer's losses exceed a deductible determined by a statutorily prescribed formula, up to a combined annual aggregate limit for the federal government and all insurers of \$100 billion. The program trigger for calendar year 2015 is \$100 million and will increase by \$20 million per year until it becomes \$200 million in 2020. Beginning January 1, 2016, the 85% federal share will decrease by 1% per year until it becomes 80% in 2020. If an act (or acts) of terrorism result in covered losses exceeding the \$100 billion annual limit, insurers with losses exceeding their deductibles will not be responsible for additional losses. An insurer's deductible for each year is based on the insurer's (together with those of its affiliates) direct commercial earned premiums for property and casualty insurance, excluding certain lines of business such as commercial auto, surety, professional liability and earthquake lines of business, for the prior calendar year multiplied by a specified percentage. The specified percentage for 2014 through 2020 is 20%.

Our U.S.-based property and casualty insurers, Arch Insurance, Arch Specialty, Arch E&S and Arch Indemnity, are subject to TRIPRA. TRIPRA specifically excludes reinsurance business and, accordingly, does not apply to our reinsurance operations. Our insurance group's deductible for 2014 was approximately \$257.9 million (i.e., 20.0% of direct earned premiums). Based on 2014 direct commercial earned premiums, our insurance group's deductible for 2015 will be approximately \$303.5 million (i.e., 20.0% of such direct earned premiums).

The Gramm-Leach-Bliley Act. The Gramm-Leach-Bliley Act of 1999 (“GLBA”), which implements fundamental changes in the regulation of the financial services industry in the United States, was enacted on November 12, 1999. The GLBA permits mergers that combine commercial banks, insurers and securities firms under one holding company, a “financial holding company.” Bank holding companies and other entities that qualify and elect to be treated as financial

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holding companies may engage in activities, and acquire companies engaged in activities, that are “financial” in nature or “incidental” or “complementary” to such financial activities. Such financial activities include acting as principal, agent or broker in the underwriting and sale of life, property, casualty and other forms of insurance and annuities.

Until the passage of the GLBA, the Glass-Steagall Act of 1933 had limited the ability of banks to engage in securities-related businesses, and the Bank Holding Company Act of 1956 had restricted banks from being affiliated with insurers. Since passage of the GLBA, among other things, bank holding companies may acquire insurers, and insurance holding companies may acquire banks. The ability of banks to affiliate with insurers may affect our U.S. subsidiaries’ product lines by substantially increasing the number, size and financial strength of potential competitors. The GLBA also imposes privacy requirements on financial institutions, including obligations to protect and safeguard consumers’ nonpublic personal information and records, and limitations on the re-use of such information. Federal regulatory agencies have issued Interagency Guidelines Establishing Information Security Standards, or “Security Guidelines,” and interagency regulations regarding financial privacy, or “Privacy Rule,” implementing sections of GLBA. The Security Guidelines establish standards relating to administrative, technical, and physical safeguards to ensure the security, confidentiality, integrity, and the proper disposal of consumer information. The Privacy Rule limits a financial institution’s disclosure of nonpublic personal information to unaffiliated third parties unless certain notice requirements are met and the consumer does not elect to prevent or “opt out” of the disclosure. The Privacy Rule also requires that privacy notices provided to customers and consumers describe the financial institutions’ policies and practices to protect the confidentiality and security of the information. With respect to mortgage insurers, GLBA is enforced by the U.S. Federal Trade Commission, or FTC, and state insurance regulators. Many states have enacted legislation implementing GLBA and establishing information security regulation. Many states have enacted privacy and data security laws which impose compliance obligations beyond GLBA, including obligations to protect social security numbers and provide notification in the event that a security breach results in a reasonable belief that unauthorized persons may have obtained access to consumer nonpublic information.

**GSE Qualified Mortgage Insurer Requirements.** Pursuant to their charters, the GSEs purchase low down payment loans insured by MIs that they determine to be qualified. Fannie Mae and Freddie Mac have each published comprehensive requirements to become and remain a qualified mortgage insurer (the “Eligibility Requirements”). On July 10, 2014, the conservator of the GSEs, the FHFA, released for comment new Eligibility Requirements, known as the Private Mortgage Insurer Eligibility Requirements or “PMIERS.” The draft PMIERS include revised financial requirements for mortgage insurers that require a mortgage insurer’s available assets, which generally include only the most liquid assets of an insurer (“Available Assets”), to meet or exceed minimum required assets, which are calculated from PMIERS tables with several risk dimensions and are subject to a floor amount (“Minimum Required Assets”). The comment period for the draft PMIERS closed in September 2014. We currently expect FHFA to publish final PMIERS in the first half of 2015 with an effective date 180 days thereafter. We expect that mortgage insurers will have up to two years after the final PMIERS are published to meet the PMIERS’ financial requirements. As set out in the draft PMIERS, a mortgage insurer that fails to certify by the effective date that it meets the PMIERS’ financial requirements will be subject, at a minimum, to a transition plan to achieve compliance within the two year period. We estimate that Arch MI U.S.’s Available Assets exceeded its Minimum Required Assets as of December 31, 2014. Our estimate of Arch MI U.S.’s Minimum Required Assets is based upon its risk written as of December 31, 2014 as adjusted to reflect the risk ceded to its affiliate, Arch Re Bermuda, and third parties under quota share reinsurance arrangements. Under the draft PMIERS, risk transferred on a quota share basis to a non-exclusive affiliated reinsurer, such as Arch Re Bermuda, or to non-affiliated reinsurers, may generally be deducted for the purposes of calculating Minimum Required Assets (based upon the projected amount of direct risk in force ceded under a stress economic scenario). However, the draft PMIERS also require a mortgage insurer to seek guidance from the GSEs to determine the amount of ceded risk that may be deducted in calculating Minimum Required Assets. The GSEs approved Arch MI U.S.’s reinsurance arrangements in connection with their approval of Arch MI U.S. as an eligible insurer in January 2014. The GSEs have not yet provided us with guidance as to the treatment of the reinsurance arrangements under the PMIERS.

Arch MI U.S.’s Minimum Required Assets ultimately required by the final PMIERS and its Available Assets will be affected by many factors, including the content and timing of the final PMIERS, macro-economic conditions, the size

and composition of Arch MI U.S.'s mortgage insurance portfolio at the applicable time of measurement, and the amount of ceded risk that may be deducted by Arch MI U.S. in its calculation of Minimum Required Assets. Primarily as a result of Arch MI U.S.'s projected insurance portfolio growth in 2015 and thereafter, we expect that we will need to contribute

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additional capital to Arch MI U.S. during that period to satisfy existing GSE financial conditions and the final PMIERS' financial requirements.

The draft PMIERS contain extensive requirements related to the operation of our mortgage insurance business, including imposing additional operational requirements in areas such as claim processing, loss mitigation, underwriting, quality control and reporting. The requirements in the draft PMIERS, if adopted in their current form, could require us to make changes to our business practices and incur additional costs in order to achieve and maintain compliance with the PMIERS.

Arch MI U.S. is currently approved by the GSEs as an eligible mortgage insurer. In addition to existing Eligibility Requirements applicable to all eligible mortgage insurers, the GSEs imposed conditions in connection with their approvals of Arch MI U.S. as a qualified mortgage insurer. These conditions require, among other things, that Arch MI U.S.:

- maintain, through December 31, 2016, minimum capital funding of \$400 million which may consist of statutory capital (policyholders' surplus plus contingency reserves), dedicated reinsurance trust assets for any primary business reinsured and a value for purchased technology assets;
- maintain minimum statutory capital (defined as policyholders' surplus plus contingency reserves) of no less than \$260 million;
- maintain a risk-to-capital ratio of no greater than 18 to 1;
- refrain from paying dividends to affiliates for three years commencing February 2014;
- insure only (i) GSE-eligible loans, (ii) loans that are GSE-eligible, other than as related to loan amount, (iii) loans originated under a state housing finance agency program, (iv) loans that meet the requirements of a "Qualified Mortgage" under federal regulation, or (v) other loans not included in (i) through (iv) provided that such loans in aggregate not constitute more than 2% of Arch MI U.S.'s total outstanding risk in force with a coverage effective date on or after December 31, 2003;
- obtain prior written approval to enter into transactions involving the issuance of insurance on other than an individual loan "flow" basis;
- not enter into reinsurance or other risk share arrangements without prior written approval; and
- re-domicile from Wisconsin to another state if requested by Fannie Mae.

Arch MI U.S.'s GSE approvals include additional conditions with respect to affiliate expense sharing arrangements, requirements to obtain a financial strength rating, provision of ancillary services (i.e., non-insurance) to customers, changes of ownership, and provisions regarding underwriting policies and claims processing.

In 2013, the GSEs also mandated minimum standards for mortgage insurer master policies, including standards relating to limitations of a mortgage insurer's rescission rights. In 2014, we developed and implemented a new master policy that conforms to these minimum standards.

State Insurance Regulation of Mortgage Insurers. Arch MI U.S. is subject to detailed regulation both by its domiciliary and primary regulator, the Wisconsin Office of the Commissioner of Insurance ("Wisconsin OCI") and by state insurance departments in each state in which it is licensed. As mandated by state insurance laws, mortgage insurers are generally mono-line companies restricted to writing a single type of insurance business, such as mortgage insurance business. Arch MI U.S. is subject to Wisconsin statutory requirements as to payment of dividends. The maximum amount of dividends that Arch MI U.S. may pay in any 12-month period without regulatory approval by the Wisconsin OCI is the lesser of adjusted statutory net income or 10% of statutory policyholders' surplus as of the preceding calendar year end. Adjusted statutory net income is defined for this purpose to be the greater of:

- net income for the calendar year preceding the date of the dividend, minus realized capital gains for that calendar year; or
- aggregate net income for the 3 calendar years preceding the date of the dividend, less realized capital gains for those calendar years and less dividends paid or credited and distributions made within the first 2 of the preceding 3 calendar years.





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Generally, Wisconsin law precludes any dividend before giving at least 30 days notice to the Wisconsin OCI and prohibits paying any dividend unless it is fair and reasonable to do so. In addition to Wisconsin, the GSEs and other states limit or restrict Arch MI U.S.'s ability to pay stockholder dividends.

Mortgage insurance companies licensed in Wisconsin are required to establish contingency loss reserves for purposes of statutory accounting in an amount equal to at least 50% of net earned premiums. These amounts generally cannot be withdrawn for a period of 10 years. However, with prior regulatory approval, a mortgage insurance company may make early withdrawals from the contingency reserve when incurred losses exceed 35% of net premiums earned in a calendar year.

Under Wisconsin law, as well as that of 15 other states, a mortgage insurer must maintain a minimum amount of statutory capital relative to its risk in force in order for the mortgage insurer to continue to write new business. While formulations of minimum capital vary in certain jurisdictions, the most common measure applied allows for a maximum risk-to-capital ratio of 25 to 1. Wisconsin requires a mortgage insurer to maintain a "minimum policyholder position" calculated in accordance with regulations. Policyholders' position consists primarily of statutory policyholders' surplus plus the statutory contingency reserve. While the statutory contingency reserve is reported as a liability on the statutory balance sheet, for risk-to-capital ratio calculations, it is included as capital for purposes of statutory capital.

The NAIC has established a working group to make recommendations to the NAIC's Financial Condition Committee regarding changes to the NAIC's Mortgage Guaranty Insurance Model Act. The NAIC working group has released several drafts which include proposed changes to minimum statutory capital requirements and changes to the extent to which, and period for which, mortgage insurers must establish and hold contingency reserves. If the NAIC revises the Mortgage Guaranty Insurance Model Act, some state legislatures are likely to enact and implement part or all of the revised provisions.

Mortgage insurance premium rates are also subject to review and approval by state regulators. Any increase in premium rates must be justified, generally on the basis of the insurer's loss and default experience, expenses and future trend analysis. Arch MI U.S. has approved premium rates for credit union and mortgage banking originated mortgage loans in all 50 states.

Legislative and Regulatory Proposals. From time to time various regulatory and legislative changes have been proposed in the insurance and reinsurance industry. Among the proposals that have been considered are the possible introduction of federal regulation in addition to, or in lieu of, the current system of state regulation of insurers and the NAIC. In addition, there are a variety of proposals being considered by various state legislatures. Two ongoing areas of work at the NAIC are model rules relating to corporate governance and consideration of enhanced methods of group supervision.

Since the GSEs were placed into the conservatorship of FHFA in 2008, there has been debate regarding the roles of the GSEs, the federal government and private capital in the U.S. housing finance system. The federal government currently plays a dominant role in the U.S. housing finance system through the GSEs and the FHA, VA and Ginnie Mae. There is broad policy consensus on the need for private capital to play a larger role and government credit risk to be reduced. However, to date there has been a lack of consensus with regard to the specific changes necessary to return a larger role for private capital and reduce the role of government. The size, complexity and centrality of the GSEs to the current housing finance system and the importance of housing to the economy make the transition to any new housing finance system difficult.

GSE and secondary market reform proposals put forward since 2008 include the nearly complete privatization and elimination of the role of the GSEs, recapitalization of the GSEs, and a number of alternatives that combine a federal role with private capital, some of which eliminate the GSEs and others of which envision an on-going role for the GSEs. In February 2011, the U.S. Department of the Treasury released a proposal to reform the U.S. housing finance market. While Treasury's proposal did not provide a particular timeline for GSE reform, it included the substantial reduction of government's footprint in housing finance. With respect to long-term reform, Treasury's proposal outlined three options for a future housing finance system, each of which differs in both the structure and scale of the federal government's future role:

Option 1: Privatized system of housing finance with the federal government's role limited to providing assistance for narrowly targeted groups of borrowers, leaving the vast majority of the mortgage market to the private sector;

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Option 2: Similar to Option 1, but with the ability for the federal government to scale up to a larger share of the market if private capital withdraws in times of financial stress; and

Option 3: Similar to Option 2, but with assistance to low- and moderate-income borrowers and with the federal government providing catastrophic reinsurance behind private capital for securities of a targeted range of mortgages. In August 2013, the Obama Administration issued a set of core principles for housing finance reform which endorsed Option 3 and intended to ensure widespread and consistent access to 30-year fixed rate mortgages while phasing out the role of the GSEs in the housing finance system. The Obama Administration also endorsed intermediate steps to transition to a new housing finance system, including reducing the government's credit risk exposure at the GSEs through: (i) a capital markets approach in which private investors take on the risk of the portfolio's first losses, and (ii) an insurance approach in which well capitalized and regulated private institutions insure a portfolio of mortgages against default and collect insurance premiums. In January 2015, the Obama Administration called for Congress to "wind down" the GSEs.

Several reform proposals have been considered by Congress. On July 24, 2013, the House Financial Services Committee passed H.R. 2767, "The Protecting American Taxpayers and Homeowners Act of 2013" (the "PATH Act"), a comprehensive secondary market reform plan similar to Option 1 including a very limited risk-bearing role for government and winding down of the GSEs. On May 15, 2014, the Senate Banking Committee passed S. 1217, "The Housing Finance Reform and Taxpayer Protection Act of 2014" (the "Reform Bill"). The Reform Bill would create a general structure for comprehensive reform and transition, including the wind down of the GSEs and the creation of a new entity, the Federal Mortgage Insurance Corporation, or "FMIC." Under the Reform Bill, private investors in single-family covered securities would be required to hold a 10% first loss position before FMIC, in exchange for a fee, would insure the payment of principal and interest on the covered securities. While the bill explicitly provides a role for mortgage insurance on low down-payment loans, it does not recognize the loss protection provided by mortgage insurance toward the 10% first loss requirement. FMIC would be responsible for promulgating standards for the approval and supervision of mortgage insurers, guarantors, aggregators and servicers.

The prospects for passage of housing finance and GSE reform legislation remain uncertain in both the House and Senate. New federal legislation could reduce the level of private mortgage insurance coverage used by the GSEs as credit enhancement, eliminate the GSE charter requirement altogether or otherwise alter or eliminate the role of the GSEs, and thereby materially affect Arch MI U.S.'s ability to compete and the demand for its products.

As the regulator and conservator of the GSEs, FHFA has the authority to establish the priorities of the GSEs and to control and direct their operations. FHFA has made changes to the business and operations of the GSEs, in part under the direction of annual FHFA-developed strategic plans or scorecards for the conservatorship of the GSEs. The 2014 strategic plan called for the contraction of the role of the GSEs and expansion of the role of private capital through a number of actions, including shrinking the portfolios of the GSEs, and consideration of expanded use of credit risk sharing with private market participants. FHFA's 2015 scorecard continues these priorities.

Arch MI U.S. competes with the single-family mortgage insurance programs of FHA, which is part of HUD. In January 2015, FHA reduced the annual mortgage insurance premium it charges from 1.35% of the loan amount to 0.85%. This premium reduction will make private mortgage insurance less competitive with the FHA for borrowers with certain credit characteristics. Congress is considering legislation to reform FHA. In July 2013, the House Financial Services Committee passed the PATH Act, which contains extensive reforms to FHA, and the Senate Banking Committee passed "The FHA Solvency Act of 2013." Despite areas of similarity, there are significant differences between the House and Senate proposed reforms. The prospects for passage of FHA reform legislation in either the House or Senate, and how differences in proposed reforms between the House and Senate might be resolved in any final legislation, are uncertain. If FHA reform were to raise FHA premiums, tighten FHA credit guidelines, make other changes which make lender use of the FHA less attractive, or implement credit risk sharing between the FHA and private mortgage insurers, these changes may be beneficial to Arch MI U.S. However, there can be no assurance that any FHA reform legislation will be enacted into law, and what provisions may be contained in any final legislation, if any.

We are unable to predict whether any of these proposed laws and regulations will be adopted, the form in which any such laws and regulations would be adopted, or the effect, if any, these developments would have on our operations

and financial condition. See “—U.S. Insurance Regulation—General.”

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Basel III. In 1988, the Basel Committee on Banking Supervision developed the Basel Capital Accord (“Basel I”), which set out international benchmarks for assessing banks' capital adequacy requirements. In 2005, the Basel Committee issued an update to Basel I (“Basel II”), which, among other things, governs the capital treatment of mortgage insurance purchased by domestic and international banks in respect of their origination and securitization activities. In 2013, Federal banking agencies approved new capital regulations implementing in the United States the Basel III international agreement on capital standards. These regulations include an “Advanced Approach” which is only applicable to the very largest banking organizations and other financial companies determined to be “systemically important.” The final regulations also included a simpler framework for smaller banking companies called the “Standardized Approach.” The Standardized Approach is generally applicable to banking companies with less than \$250 billion in assets. The Basel III regulations restrict the instruments that can count toward meeting the capital requirements, thereby placing greater emphasis on common equity and retained earnings.

The Advanced Approach framework utilizes models to determine the capital requirements for covered entities. Pursuant to these models, covered companies will determine for each type of mortgage held in portfolio such factors as the probability of default, the loss to the bank in the event of a default, and the bank's exposure at default. The data must be based on highly stressed economic conditions. The existence of mortgage insurance may be factored into these models, and may result in a lower capital requirement for certain classes of mortgage loans. However, the degree to which mortgage insurance will reduce capital requirements depends on the characteristics of the loans and regulatory approval of the methodology used by the banking companies. Therefore, the full extent to which mortgage insurance will reduce capital requirements under this approach is uncertain.

Under the Standardized Approach, the capital treatment of mortgage loans is essentially unchanged from Basel II. Prudently underwritten first mortgage loans will continue to generally receive a risk weight of 50%. The existence of mortgage insurance will compensate for an original loan-to-value ratio of less than 90%. If a mortgage is originated with a loan-to-value ratio that is greater than 90%, it will not be considered to be prudently underwritten unless the loan is protected by mortgage insurance or other credit support, such as readily marketable collateral.

In December, 2014, the Basel committee issued a new proposal to make further revisions in the Basel III capital rules. Among other things, the new proposal would introduce a table of risk weights for residential mortgages ranging from 25% to 100% based on the loan-to-value ratio. Comments are due on this proposal by March 27, 2015. It is possible that adoption of this proposal, and its implementation in the United States, could have an adverse impact on the mortgage insurance business. We cannot predict what impact the Basel III regulations, as approved in 2013 or as may be amended, will have on the demand for mortgage insurance.

Under both the Advanced and Standardized Approaches, the risk weight for mortgage servicing assets held by banks is sharply increased, and mortgage servicing assets above certain levels must be deducted from capital. Since a significant percentage of the mortgages insured by the mortgage insurance industry are serviced by banks or bank-owned mortgage companies, these changes could cause shifts in the amounts of mortgages serviced by banks and bank affiliates or subsidiaries relative to non-banking organizations. It is difficult to predict the impact these shifts may have on the quality of the servicing of insured mortgages or the ultimate impact on the mortgage insurance industry.

In addition to new capital standards, the Basel III international accord also calls upon the international banking regulators to impose minimum liquidity requirements on banking institutions. In September 2014, Federal banking agencies finalized a regulation implementing this new Basel III liquidity requirement by prescribing a “liquidity coverage ratio” or “LCR.” The LCR will be phased-in over a two year period that began on January 1, 2015.

The LCR requires covered banking organizations (those with \$50 billion or more in assets) to maintain sufficient amounts of high quality liquid assets to withstand a specified run on the institution during a period of severe economic stress. Mortgages and mortgage-related securities are not considered to be high quality liquid assets under this test. Therefore, covered banks may decide to reduce their mortgage loan portfolios in order to replace these assets with investments that meet the definition of high quality liquid assets. We cannot predict what, if any, effect this may have on the demand for mortgage insurance.

United Kingdom Insurance Regulation

General. The Financial Services Authority (the “FSA”), which on April 1, 2013 was replaced by the Prudential Regulation Authority (“PRA”) and the Financial Conduct Authority (“FCA”), regulated insurance and reinsurance

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companies and firms carrying on insurance mediation activities operating in the U.K. under the Financial Services and Markets Act 2000 (the “FSMA”). In May 2004, Arch Insurance Company Europe was licensed and authorized by the FSA. It holds the relevant permissions for the classes of insurance business which it underwrites in the U.K. In 2009, AUAL was licensed and authorized by the FSA and the Lloyd’s Franchise Board. AUAL holds the relevant permissions for the classes of insurance business which are underwritten in the U.K. by Arch Syndicate 2012. Arch Syndicate 2012 has one member, Arch Syndicate Investments Ltd. Arch Risk Partners was licensed and authorized by the FSA in February 2012 to conduct insurance mediation activities. All U.K. companies are also subject to a range of statutory provisions, including the laws and regulations of the Companies Act 2006 (as amended) (the “U.K. Companies Act”).

The objectives of the PRA are to promote the safety and soundness of all firms it supervises and to secure an appropriate degree of protection for policyholders. The objectives of the FCA are to ensure customers receive financial services and products that meet their needs, to promote sound financial systems and markets and to ensure that firms are stable and resilient with transparent pricing information and which compete effectively and have the interests of their customers and the integrity of the market at the heart of how they run their business. The PRA has responsibility for the prudential regulation of banks and insurers, while the FCA has responsibility for the conduct of business regulation in the wholesale and retail markets. The PRA and the FCA adopt separate methods of assessing regulated firms on a periodic basis. Arch Insurance Europe and AUAL were assessed by the PRA during 2014. Arch Insurance Company Europe and AUAL are subject to regulation by both the PRA and FCA. Arch Risk Partners is subject to regulation by the FCA only.

**Lloyd’s Supervision.** The operations of AUAL and related Arch Syndicate 2012 and its corporate member, Arch Syndicate Investments Ltd (“ASIL”), are subject to the byelaws and regulations made by (or on behalf of) the Council of Lloyd’s, and requirements made under those byelaws. The Council of Lloyd’s, established in 1982 by Lloyd’s Act 1982, has overall responsibility and control of Lloyd’s. Those byelaws, regulations and requirements provide a framework for the regulation of the Lloyd’s market, including specifying conditions in relation to underwriting and claims operations of Lloyd’s participants. Lloyd’s is also subject to the provisions of the FSMA. Lloyd’s is authorized by the PRA and regulated by the PRA and FCA. Those entities acting within the Lloyd’s market are required to comply with the requirements of the FSMA and provisions of the PRA’s or FCA’s rules, although the PRA has delegated certain of its powers, including some of those relating to prudential requirements, to Lloyd’s. ASIL, as a member of Lloyd’s, is required to contribute 0.5% of Arch Syndicate 2012’s premium income limit for each year of account to the Lloyd’s central fund. The Lloyd’s central fund is available if members of Lloyd’s assets are not sufficient to meet claims for which the member is liable. As a member of Lloyd’s, ASIL may also be required to contribute to the central fund by way of a supplement to a callable layer of up to 3% of Arch Syndicate 2012’s premium income limit for the relevant year of account. In addition, AUAL, on behalf of Arch Syndicate 2012, is approved to underwrite excess and surplus lines insurance in most states in the U.S. through Lloyd’s licenses. Such activities must be in compliance with the Lloyd’s requirements.

**Financial Resources.** Arch Insurance Company Europe and AUAL (on behalf of itself, Arch Syndicate 2012 and ASIL) are each required to demonstrate the adequacy of its financial assets to the PRA, while Arch Risk Partners is required to demonstrate the adequacy of its financial assets to the FCA. On a periodic basis, Arch Insurance Europe is required to provide the PRA and Lloyd’s with its own risk-based assessment of its capital needs, taking into account comprehensive risk factors, including market, credit, operational, liquidity and group risks to generate a revised calculation of its expected liabilities which, in turn, enable the PRA and Lloyd’s to provide individual capital guidance and requirements to Arch Insurance Europe. Arch Insurance Europe’s surplus is above the risk-based capital threshold allowed by the PRA’s individual capital assessment of Arch Insurance Europe. The PRA requires that Arch Insurance Europe maintain a margin of solvency calculation based on the classes of business for which it is authorized and within its premium income projections applied to its worldwide general business.

**Reporting Requirements.** Like all U.K. companies, Arch Insurance Europe and Arch Risk Partners must file and submit their annual audited financial statements in accordance with IFRS and related reports to the Registrar of Companies under the U.K. Companies Act together with an annual return of certain core corporate information and changes from the prior year. This requirement is in addition to the regulatory returns required to be filed annually with



the PRA or the FSA (as applicable) for Arch Insurance Company Europe, AUAL and Arch Risk Partners and, in the case of AUAL and ASIL, Lloyd's.

Financial Services Compensation Scheme. The Financial Services Compensation Scheme ("FSCS") is a scheme established under FSMA to compensate eligible policyholders of insurance companies who may become insolvent. The FSCS is funded by the levies that it has the power to impose on all insurers. Arch Insurance Europe and/or Arch Risk Partners could be required to pay levies to the FSCS.

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**Restrictions on Acquisition of Control.** Under FSMA, the prior consent of the FSA was required, and now the PRA or FCA, as applicable, is required, before any person can become a controller or increase its control over any regulated company, including Arch Insurance Company Europe, AUAL and Arch Risk Partners, or over the parent undertaking of any regulated company. Therefore, the FSA's prior consent was required, and now the PRA's or FCA's prior consent, as applicable, is required before any person can become a controller of ACGL. Prior consent is also required from Lloyd's before any person can become a controller or increase its control over a corporate member or a managing agent or a parent undertaking of a corporate member or managing agent. A controller is defined for these purposes as a person who holds (either alone or in concert with others) 10% (20%, in the case of an intermediary such as Arch Risk Partners) or more of the shares or voting power in the relevant company or its parent undertaking.

**Restrictions on Payment of Dividends.** Under English law, all companies are restricted from declaring a dividend to their shareholders unless they have "profits available for distribution." The calculation as to whether a company has sufficient profits is based on its accumulated realized profits minus its accumulated realized losses. U.K. insurance regulatory laws do not prohibit the payment of dividends, but the FSA required, and now the PRA or FCA, as applicable, requires that insurance companies and insurance intermediaries maintain certain solvency margins and may restrict the payment of a dividend by Arch Insurance Company Europe, AUAL, ASIL or Arch Risk Partners. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources— Liquidity and Capital Resources" and note 23, "Statutory Information," of the notes accompanying our financial statements.

**European Union Considerations.** Through their respective authorizations in the U.K., a Member State of the European Union ("EU"), Arch Insurance Company Europe's, AUAL's and Arch Risk Partners' authorizations are recognized throughout the European Economic Area ("EEA"), subject only to certain notification and application requirements. This authorization enables Arch Insurance Company Europe, AUAL and Arch Risk Partners to establish a branch in any other Member State of the EU, where such entity will be subject to the insurance regulations of each such Member State with respect to the conduct of its business in such Member State, but remain subject only to the financial and operational supervision by the PRA or FCA (as applicable). The framework for the establishment of branches in Member States of the EU other than the U.K. was generally set forth, and remains subject to, directives adopted by the European Council, the legislative body of the EU, which directives are then implemented in each Member State. Arch Insurance Company Europe currently has branches in Denmark, Germany, Italy, Spain and Sweden and may establish branches in other Member States of the EU in the future. Further, through its authorizations in an EU Member State, Arch Risk Partners, Arch Insurance Company Europe and AUAL have the freedom to provide insurance services anywhere in the EEA subject to compliance with certain rules governing such provision, including notification to the PRA or FCA, as applicable.

In November 2009, the EU adopted a new directive directed at insurance and reinsurance companies known as Solvency II, which has been subject to numerous delays and must now be transposed into the national law of each Member State by March 31, 2015 and implemented by firms by January 1, 2016. Arch Insurance Company Europe, AUAL and Syndicate 2012 will be required to comply with Solvency II requirements. See "European Union Insurance and Reinsurance Regulation" below for additional details.

#### Canada Insurance Regulation

Arch Insurance Canada, which commenced underwriting on January 1, 2013 and Arch Re Canada, which commenced underwriting on January 1, 2015, are subject to federal, as well as provincial and territorial, regulation in Canada. The Office of the Superintendent of Financial Institutions ("OSFI") is the federal regulatory body that, under the Insurance Companies Act (Canada), regulates federal Canadian and non-Canadian insurance/reinsurance companies operating in Canada. The primary goal of OSFI is to supervise the safety and soundness of insurance/reinsurance companies with the aim of securing the appropriate level of protection of insureds by imposing risk management, solvency and capital requirements on such companies. Arch Insurance Canada and Arch Re Canada are subject to regulation in the provinces and territories in which they underwrite insurance/reinsurance, and the primary goal of insurance/reinsurance regulation at the provincial and territorial levels is to govern the market conduct of insurance/reinsurance companies. Arch Insurance Canada is licensed to carry on insurance business by OSFI and in each province and territory. Arch Re Canada is licensed to carry-on reinsurance business by OSFI and in the province

of Ontario.

Under the Insurance Companies Act (Canada), Arch Insurance Canada is required to maintain an adequate amount of capital in Canada, calculated in accordance with a test promulgated by OSFI called the Minimum Capital Test, and Arch Re

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Canada is required to maintain an adequate margin of assets over liabilities in Canada, calculated in accordance with a test promulgated by OSFI called the Branch Adequacy of Assets Test. Arch Insurance Canada and Arch Re Canada are required to file financial information with OSFI on an ongoing basis, including annual audited financial statements in accordance with IFRS. The appointed actuary of our Canadian operations must report annually on the adequacy of their reserves. OSFI's continuing supervision includes analysis of this information and periodic examinations of Arch Insurance Canada and Arch Re Canada. OSFI has implemented a risk-based methodology for assessing insurance/reinsurance companies operating in Canada known as its "Supervisory Framework." In applying the Supervisory Framework, OSFI considers the inherent risks of the business and the quality of risk management for each significant activity of each operating entity.

**Ireland Insurance and Reinsurance Regulation**

**General.** The Central Bank of Ireland ("CBOI") regulates insurance and reinsurance companies and intermediaries authorized in Ireland. We have three Irish operating subsidiaries: Arch Re Europe, Arch MI Europe and Arch Underwriters Europe. Arch Re Europe was licensed and authorized by the CBOI as a non-life reinsurer in October 2008 and as a life reinsurer in November 2009. Arch MI Europe was licensed and authorized by the CBOI as a non-life insurer in December 2011. Arch Underwriters Europe was registered by the CBOI as an insurance and reinsurance intermediary in July 2014.

Arch Re Europe, Arch MI Europe and Arch Underwriters Europe are subject to the supervision of the CBOI and must comply with Irish insurance acts and regulations as well as with directions and guidance issued by the CBOI. Under the regulatory and legislative framework that applies to insurers and reinsurers, Arch Re Europe and Arch MI Europe are obliged to maintain capital reserves, to employ fit and proper personnel, and to comply with governance requirements. As an intermediary, Arch Underwriters Europe is subject to a different regulatory regime and is not subject to capital reserving rules, but must comply with requirements such as to maintain professional indemnity insurance and to have directors that are fit and proper. Our Irish subsidiaries are also subject to the general body of Irish company laws and regulations including the provisions of the Companies Acts 1963-2013.

**Financial Resources.** Both Arch Re Europe and Arch MI Europe are required to maintain reserves, particularly in respect of underwriting liabilities and a solvency margin as provided for in the Irish insurance acts and regulations mentioned above. Arch Re Europe must maintain assets constituting statutory reserves which must comply with principles including obligations to secure sufficiency, liquidity, security, quality, profitability and currency matching of investments. An appointed actuary must opine on the adequacy of the statutory reserves of both Arch Re Europe and Arch MI Europe annually.

**Restrictions on Acquisitions.** Under Irish law, the prior consent of the CBOI is required before any person can acquire or increase a qualifying holding in an Irish insurer or reinsurer, including Arch MI Europe and Arch Re Europe, or their parent undertakings. A qualifying holding is defined for these purposes as a direct or indirect holding that represents 10% or more of the capital of, or voting rights, in the undertaking or makes it possible to exercise a significant influence over the management of the undertaking.

**Reporting Requirements.** Like most Irish companies, Arch Re Europe, Arch MI Europe and Arch Underwriters Europe must file and submit their annual audited financial statements in accordance with Irish generally accepted accounting principles and related reports to the Registrar of Companies ("Registrar") under the Companies Acts 1963-2013 together with an annual return of certain core corporate information. Changes to core corporate information during the year must also be notified to the Registrar. These requirements are in addition to the regulatory returns required to be filed annually with the CBOI.

**Restrictions on Payment of Dividends.** Under Irish company law, Arch Re Europe, Arch MI Europe and Arch Underwriters Europe are permitted to make distributions only out of profits available for distribution. A company's profits available for distribution are its accumulated, realized profits, so far as not previously utilized by distribution or capitalization, less its accumulated, realized losses, so far as not previously written off in a reduction or reorganization of capital duly made. Further, the CBOI has powers to intervene if a dividend payment were to lead to a breach of regulatory capital requirements. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources—Liquidity and Capital Resources" and note 23, "Statutory Information," of the notes accompanying our financial statements.

European Union Considerations. As Arch Re Europe, Arch MI Europe and Arch Underwriters Europe are authorized by the CBOI in Ireland, a Member State of the EU, those authorizations are recognized throughout the EEA. Subject only

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to certain notification and application requirements, Arch Re Europe, Arch MI Europe and Arch Underwriters Europe can provide services, or establish a branch, in any other Member State of the EEA. Although, in doing so, they may be subject to the laws of such Member States with respect to the conduct of business in such Member State, company law registrations and other matters, they will remain subject to financial and operational supervision by the CBOI only. Arch Re Europe has a branch in Denmark, Arch Re Accident & Health ApS (“Arch Re Denmark”), which is an underwriting agency underwriting accident and health business for Arch Re Europe. Arch Re Europe also has a branch in the U.K., which underwrites non-life reinsurance risk for Arch Re Europe. Finally, Arch Re Europe also has a branch outside the EEA, Arch Reinsurance Europe Underwriting Limited, Dublin (Ireland), Zurich Branch (“Arch Re Europe Swiss Branch”).

As part of its application for registration, Arch Underwriters Europe requested the CBOI to make the necessary notifications to permit it to provide insurance and reinsurance intermediary services in all EEA Member States. Arch Underwriters Europe has not yet availed of any permit to provide services in an EEA Member State outside Ireland. In November 2009, the EU adopted a new directive directed at insurance and reinsurance companies known as Solvency II, which has been subject to numerous delays and must now be transposed into the national law of each Member State by March 31, 2015 and implemented by firms by January 1, 2016. Arch Re Europe, Arch MI Europe and Arch Underwriters Europe will be required to comply with Solvency II requirements. See “-European Union Insurance and Reinsurance Regulation” below for additional details.

Switzerland Reinsurance Regulation

In November 2006, Arch Re Bermuda opened Arch Reinsurance Ltd., Hamilton (Bermuda), European Branch Zurich (“Arch Re Bermuda Swiss Branch”). In December 2008, Arch Re Europe opened Arch Re Europe Swiss Branch as a branch office. Upon the opening of this branch in the fourth quarter of 2008, the operations of Arch Re Bermuda Swiss Branch were transferred to Arch Re Europe Swiss Branch. Arch Re Bermuda Swiss Branch was formally de-registered from the commercial register of the Canton of Zurich in early 2009. As both Arch Re Europe and Arch Re Bermuda are domiciled outside of Switzerland and their activities were and are limited to reinsurance, their respective branches in Switzerland were and are not required to be licensed by the Swiss insurance regulatory authorities.

European Union Insurance and Reinsurance Regulation

Insurance. On November 25, 2009, the EU adopted a new directive directed at insurance and reinsurance companies known as Solvency II. Solvency II is a new regulatory regime which will impose economic risk-based solvency requirements across all EU Member States and consists of three pillars: (1) Pillar I-quantitative capital requirements, based on a valuation of the entire balance sheet; (2) Pillar II-qualitative regulatory review, which includes governance, internal controls, enterprise risk management and supervisory review process; and (3) Pillar III-market discipline, which is accomplished through reporting of the insurer’s financial condition to regulators and the public. Solvency II has been the subject of a number of delays in its implementation, and two “quick-fix” directives each pushed the implementation date back from an original implementation date of November 1, 2012. The most recent directive that amends Solvency II, the Omnibus II directive (Directive 2014/51/EU), was published and came into force in May 2014. Solvency II must now be transposed into the national law of each Member State by March 31, 2015 and implemented by firms by January 1, 2016. The detail of the Solvency II project will be set out in “delegated acts” and binding technical standards which will be issued by the European Commission and will be legally binding. A delegated act, which sets out more detailed requirements for individual insurance undertakings as well as for groups based on the overarching provisions of Solvency II and which will make up the core of the single prudential rulebook for insurance and reinsurance undertakings in the EU, was published by the European Commission on October 10, 2014 and came into force on January 18, 2015 (the “Delegated Act”).

Reinsurance. The single system established in the EU for regulation and supervision of the general insurance sector and its single passport regime had until 2007 applied only to direct insurance, and there was no common regulation of reinsurance in the EU. However, direct insurers established in a Member State of the EEA who were also authorized by their domestic regulatory authorities to transact reinsurance have had freedom to establish branches in and provide insurance services to all EEA states and that freedom has in practice been extended to their reinsurance activities. In December 2005, the EU published the Reinsurance Directive (the “Directive”) as a first step in harmonization of

reinsurance regulation in the single market. Member States of the EU and the EEA were required to implement the Directive by December 2007. Pure reinsurers established in a Member State of the EU now have freedom to establish branches in and provide services to all EEA states under a regime comparable to that enjoyed by direct insurers, and they will be subject to similar rules in relation to licensing and financial supervision.

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Arch Insurance Company Europe, AUAL and Arch Risk Partners, being established in the U.K. and authorized by the PRA and FCA, are able, subject to regulatory notifications and there being no objection from the relevant U.K. regulator, and the Member States concerned, to establish branches and provide insurance and reinsurance services in all EEA Member States. Arch Re Europe, being established in Ireland and authorized by the CBOI to write reinsurance, is able, subject to similar regulatory notifications and there being no objection from the CBOI and the Member States concerned, to establish branches and provide reinsurance services in those EEA states which have implemented the Directive. The Directive itself does not prohibit EEA insurers from obtaining reinsurance from reinsurers licensed outside the EEA, such as Arch Re Bermuda. As such, and subject to the specific rules in particular Member States, Arch Re Bermuda may do business from Bermuda with insurers in EEA Member States, but it may not directly operate its reinsurance business within the EEA. Unless agreement is reached between the European Commission and Bermuda to accord Bermuda based reinsurers with market access on the basis of the equivalent nature of Bermuda regulation, each individual EEA Member State may impose conditions on reinsurance provided by Bermuda based reinsurers which could restrict their future provision of reinsurance to the EEA Member State concerned. A number of EEA Member States currently restrict the extent to which Bermudian reinsurers may promote their services in those Member States, and a few have certain prohibitions on the purchase of insurance from reinsurers not authorized in the EEA. The Directive is scheduled to be repealed and replaced by new provisions under Solvency II on January 1, 2016. However, this may change depending on whether the implementation date for Solvency II is extended again from January 1, 2016.

Article 172 of Solvency II will, when it comes into force, provide that reinsurance contracts concluded by insurance undertakings in the EEA with reinsurers having their head office in a country whose solvency regime has been determined to be equivalent to Solvency II shall be treated in the same manner as reinsurance contracts with undertakings in the EEA authorized under Solvency II. The European Commission is considering whether the solvency regime in Bermuda is equivalent to that laid down in Solvency II. In October 2011, the European Insurance and Occupational Pension Authority (“EIOPA”), which is established under European Law as an independent advisory body to the European Parliament, the European Council and the European Commission and specifically to assist in preparing equivalence decisions, advised that Bermuda meets the criteria set out in EIOPA’s methodology for equivalence assessments under Solvency II subject to certain caveats set out in EIOPA’s report. This advice has recently been updated pursuant to a request by the European Commission and, on December 19, 2014, EIOPA published a consultation paper presenting draft advice to the European Commission in which it supported key aspects of Bermuda’s regulatory regime with certain caveats. The next substantive step will be the publication of EIOPA’s final report, which will be submitted to EIOPA’s Board of Supervisors before being sent to the European Commission. EIOPA’s advice is expected to allow the European Commission to take informed decisions this year on whether solvency and prudential regimes in Bermuda (as well as Japan and Switzerland) are equivalent to Solvency II.

**TAX MATTERS**

The following summary of the taxation of ACGL and the taxation of our shareholders is based upon current law and is for general information only. Legislative, judicial or administrative changes may be forthcoming that could affect this summary.

The following legal discussion (including and subject to the matters and qualifications set forth in such summary) of certain tax considerations (a) under “—Taxation of ACGL—Bermuda” and “—Taxation of Shareholders—Bermuda Taxation” based upon the advice of Conyers Dill & Pearman Limited, Hamilton, Bermuda and (b) under “—Taxation of ACGL—United States,” “—Taxation of Shareholders—United States Taxation,” “—Taxation of Our U.S. Shareholders” and “—States Taxation of Non-U.S. Shareholders” is based upon the advice of Cahill Gordon & Reindel LLP, New York, New York (the advice of such firms does not include accounting matters, determinations or conclusions relating to the business or activities of ACGL). The summary is based upon current law and is for general information only. The tax treatment of a holder of our shares (common shares or series C non-cumulative preferred shares), or of a person treated as a holder of our shares for U.S. federal income, state, local or non-U.S. tax purposes, may vary depending on the holder’s particular tax situation. Legislative, judicial or administrative changes or interpretations may be forthcoming that could be retroactive and could affect the tax consequences to us or to holders of our shares.





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Taxation of ACGL

Bermuda

Under current Bermuda law, ACGL is not subject to tax on income or profits, withholding, capital gains or capital transfers. ACGL has obtained from the Minister of Finance under the Exempted Undertakings Tax Protection Act 1966 an assurance that, in the event that Bermuda enacts legislation imposing tax computed on profits, income, any capital asset, gain or appreciation, or any tax in the nature of estate duty or inheritance, the imposition of any such tax shall not be applicable to ACGL or to any of our operations or our shares, debentures or other obligations until March 31, 2035. We could be subject to taxes in Bermuda after that date. This assurance will be subject to the proviso that it is not to be construed so as to prevent the application of any tax or duty to such persons as are ordinarily resident in Bermuda (we are not so currently affected) or to prevent the application of any tax payable in accordance with the provisions of the Land Tax Act 1967 or otherwise payable in relation to any property leased to us or our insurance subsidiary. We pay annual Bermuda government fees, and our Bermuda insurance and reinsurance subsidiary pays annual insurance license fees. In addition, all entities employing individuals in Bermuda are required to pay a payroll tax and other sundry taxes payable, directly or indirectly, to the Bermuda government.

United States

ACGL and its non-U.S. subsidiaries intend to conduct their operations in a manner that will not cause them to be treated as engaged in a trade or business in the United States and, therefore, will not be required to pay U.S. federal income taxes (other than U.S. excise taxes on insurance and reinsurance premium and withholding taxes on dividends and certain other U.S. source investment income). However, because definitive identification of activities which constitute being engaged in a trade or business in the U.S. is not provided by the Internal Revenue Code of 1986, as amended (the "Code"), or regulations or court decisions, there can be no assurance that the U.S. Internal Revenue Service ("IRS") will not contend successfully that ACGL or its non-U.S. subsidiaries are or have been engaged in a trade or business in the United States. A foreign corporation deemed to be so engaged would be subject to U.S. income tax, as well as the branch profits tax, on its income, which is treated as effectively connected with the conduct of that trade or business unless the corporation is entitled to relief under the permanent establishment provisions of a tax treaty. Such income tax, if imposed, would be based on effectively connected income computed in a manner generally analogous to that applied to the income of a domestic corporation, except that deductions and credits generally are not permitted unless the foreign corporation has timely filed a U.S. federal income tax return in accordance with applicable regulations. Penalties may be assessed for failure to file tax returns. The 30% branch profits tax is imposed on net income after subtracting the regular corporate tax and making certain other adjustments. Under the income tax treaty between Bermuda and the United States (the "Treaty"), ACGL's Bermuda insurance subsidiaries will be subject to U.S. income tax on any insurance premium income found to be effectively connected with a U.S. trade or business only if that trade or business is conducted through a permanent establishment in the United States. No regulations interpreting the Treaty have been issued. While there can be no assurances, ACGL does not believe that any of its Bermuda insurance subsidiaries has a permanent establishment in the United States. Such subsidiaries would not be entitled to the benefits of the Treaty if (i) less than 50% of ACGL's shares were beneficially owned, directly or indirectly, by Bermuda residents or U.S. citizens or residents, or (ii) any such subsidiary's income were used in substantial part to make disproportionate distributions to, or to meet certain liabilities to, persons who are not Bermuda residents or U.S. citizens or residents. While there can be no assurances, ACGL believes that its Bermuda insurance subsidiaries are eligible for Treaty benefits.

The Treaty clearly applies to premium income, but may be construed as not protecting investment income. If ACGL's Bermuda insurance subsidiaries were considered to be engaged in a U.S. trade or business and were entitled to the benefits of the Treaty in general, but the Treaty were not found to protect investment income, a portion of such subsidiaries' investment income could be subject to U.S. federal income tax.

Non-U.S. insurance companies carrying on an insurance business within the United States have a certain minimum amount of effectively connected net investment income, determined in accordance with a formula that depends, in part, on the amount of U.S. risk insured or reinsured by such companies. If any of ACGL's non-U.S. insurance subsidiaries is considered to be engaged in the conduct of an insurance business in the United States, a significant portion of such company's investment income could be subject to U.S. income tax.



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Non-U.S. corporations not engaged in a trade or business in the United States are nonetheless subject to U.S. income tax on certain “fixed or determinable annual or periodic gains, profits and income” derived from sources within the United States as enumerated in Section 881(a) of the Code (such as dividends and certain interest on investments), subject to exemption under the Code or reduction by applicable treaties.

The United States also imposes an excise tax on insurance and reinsurance premiums paid to non-U.S. insurers or reinsurers with respect to risks located in the United States. The rates of tax, unless reduced by an applicable U.S. tax treaty, are 4% for non-life insurance premiums and 1% for life insurance and all reinsurance premiums.

### United Kingdom

Our U.K. subsidiaries are companies incorporated and have their central management and control in the U.K., and are therefore resident in the U.K. for corporation tax purposes. As a result, they will be subject to U.K. corporation tax on their respective worldwide profits. Arch Re Europe U.K. Branch will be subject to U.K. corporation tax on the profits (both income profits and chargeable gains) attributable to the branch. The main rate of U.K. corporation tax for the financial year starting April 1, 2014 is 21% on profits. It has been announced that the U.K. corporation tax rate for the financial year starting April 1, 2015 will be 20% on profits.

### Canada

In January 2005, Arch Insurance received its federal license to commence underwriting in Canada and began writing business in the first quarter of 2005 through its branch operation. Effective January 1, 2013, the branch operation was domesticated into Arch Insurance Canada, a Canadian federal insurance company subsidiary of Arch Insurance. Arch Re U.S., through a branch, commenced underwriting reinsurance in Canada in January 2015. Arch Insurance Canada is taxed on its worldwide income. Arch Re U.S. is taxed on its net business income earned in Canada. The general federal corporate income tax rate in Canada is currently 15%. Provincial and territorial corporate income tax rates are added to the general federal corporate income tax rate and generally vary between 10% and 16%.

### Ireland

Arch Re Europe was licensed and authorized by the CBOI as a non-life reinsurer in October 2008 and as a life reinsurer in November 2009. Arch MI Europe was licensed and authorized by the CBOI as a non-life insurer in 2011. Arch Underwriters Europe Limited was registered by the CBOI as an insurance and reinsurance intermediary in July 2014. Each of Arch Re Europe, Arch MI Europe and Arch Underwriters Europe is incorporated and resident in Ireland for corporation tax purposes and will be subject to Irish corporate tax on its worldwide profits, including the profits of Arch Re Europe Swiss Branch and its U.K. branch. Any creditable foreign tax (i.e., Swiss or U.K.) payable will be creditable against Arch Re Europe’s Irish corporate tax liability on the results of Arch Re Europe’s Swiss and U.K. branches. The current rate of Irish corporation tax applicable to such profits is 12.5%.

### Switzerland

Arch Re Europe Swiss Branch and Arch Underwriters Europe Swiss Branch are subject to Swiss corporation tax on the profit which is allocated to the branch. The effective tax rate is approximately 21.12% for Swiss federal, cantonal and communal corporation taxes on the profit. The effective tax rate of the annual cantonal and communal capital taxes on the equity which is allocated to Arch Re Europe Swiss Branch and Arch Underwriters Europe Swiss Branch is approximately 0.14%.

### Denmark

Arch Re Denmark, established as a subsidiary of Arch Re Bermuda, is subject to Danish corporation taxes on its profits at a rate of 25% for 2013 and the preceding years. For 2014, the corporate tax rate has been reduced to 24.5%, for 2015 to 23.5% and for 2016 and onwards to 22%.

### Taxation of Shareholders

The following summary sets forth certain United States federal income tax considerations related to the purchase, ownership and disposition of our common shares and our series C non-cumulative preferred shares (“preferred shares”). Unless otherwise stated, this summary deals only with shareholders (“U.S. Holders”) that are United States Persons (as

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defined below) who hold their common shares and preferred shares as capital assets and as beneficial owners. The following discussion is only a general summary of the United States federal income tax matters described herein and does not purport to address all of the United States federal income tax consequences that may be relevant to a particular shareholder in light of such shareholder's specific circumstances. In addition, the following summary does not describe the United States federal income tax consequences that may be relevant to certain types of shareholders, such as banks, insurance companies, regulated investment companies, real estate investment trusts, financial asset securitization investment trusts, dealers in securities or traders that adopt a mark-to-market method of tax accounting, tax exempt organizations, expatriates or persons who hold the common shares or preferred shares as part of a hedging or conversion transaction or as part of a straddle, who may be subject to special rules or treatment under the Code. This discussion is based upon the Code, the Treasury regulations promulgated there under and any relevant administrative rulings or pronouncements or judicial decisions, all as in effect on the date of this annual report and as currently interpreted, and does not take into account possible changes in such tax laws or interpretations thereof, which may apply retroactively. This discussion does not include any description of the tax laws of any state or local governments within the United States, or of any foreign government, that may be applicable to our common shares or preferred shares or the shareholders. Persons considering making an investment in the common shares or preferred shares should consult their own tax advisors concerning the application of the United States federal tax laws to their particular situations as well as any tax consequences arising under the laws of any state, local or foreign taxing jurisdiction prior to making such investment.

If a partnership holds our common shares or preferred shares, the tax treatment of a partner will generally depend upon the status of the partner and the activities of the partnership. If you are a partner of a partnership holding our common shares or preferred shares, you should consult your tax advisor.

For purposes of this discussion, the term "United States Person" means:

- a citizen or resident of the United States,
- a corporation or entity treated as a corporation created or organized in or under the laws of the United States, any state thereof, or the District of Columbia,
- an estate the income of which is subject to United States federal income taxation regardless of its source,
- a trust if either (x) a court within the United States is able to exercise primary supervision over the administration of such trust and one or more United States persons have the authority to control all substantial decisions of such trust or (y) the trust has a valid election in effect to be treated as a United States person for U.S. federal income tax purposes or
- any other person or entity that is treated for U.S. federal income tax purposes as if it were one of the foregoing.

**Bermuda Taxation**

Currently, there is no Bermuda withholding tax on dividends paid by us.

**United States Taxation**

**Taxation of Dividends.** The preferred shares should be properly classified as equity rather than debt for U.S. federal income tax purposes. Subject to the discussions below relating to the potential application of the CFC, "related person insurance income" ("RPII") and PFIC rules, as defined below, cash distributions, if any, made with respect to our common shares or preferred shares will constitute dividends for U.S. federal income tax purposes to the extent paid out of our current or accumulated earnings and profits (as computed using U.S. tax principles). If a U.S. Holder of our common shares or our preferred shares is an individual or other non-corporate holder, dividends paid, if any, to that holder that constitute qualified dividend income will be taxable at the rate applicable for long-term capital gains (generally up to 20%), provided that such person meets a holding period requirement. Generally in order to meet the holding period requirement, the United States Person must hold the common shares for more than 60 days during the 121-day period beginning 60 days before the ex-dividend date and must hold preferred shares for more than 90 days during the 181-day period beginning 90 days before the ex-dividend date. Dividends paid, if any, with respect to common shares or preferred shares generally will be qualified dividend income, provided the common shares or preferred shares are readily tradable on an established securities market in the U.S. in the year in which the shareholder receives the dividend (which should be the case for shares that are listed on the NASDAQ Stock Market or the New York Stock Exchange) and ACGL is not considered to be a passive foreign investment company in either

the year of the distribution or the preceding taxable year. No assurance can be given that the

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preferred shares will be considered readily tradable on an established securities market in the United States. See “—Taxation of Our U.S. Shareholders” below.

A U.S. Holder that is an individual, estate or a trust that does not fall into a special class of trusts that is exempt from such tax, will be subject to a 3.8% tax on the lesser of (1) the U.S. Holder’s “net investment income” for the relevant taxable year and (2) the excess of the U.S. Holder’s modified adjusted gross income for the taxable year over a certain threshold (which in the case of individual will be between \$125,000 and \$250,000, depending on the individual’s circumstances). A U.S. Holder’s net investment income will generally include its dividend income and its net gains from the disposition of our common shares and preferred shares, unless such dividend income or net gains are derived in the ordinary course of the conduct of a trade or business (other than a trade or business that consists of certain passive or trading activities).

Distributions with respect to the common shares and the preferred shares will not be eligible for the dividends received deduction allowed to U.S. corporations under the Code. To the extent distributions on our common shares and preferred shares exceed our earnings and profits, they will be treated first as a return of the U.S. Holder’s basis in our common shares and our preferred shares to the extent thereof, and then as gain from the sale of a capital asset. Sale, Exchange or Other Disposition. Subject to the discussions below relating to the potential application of the CFC, RPII and PFIC rules, holders of common shares and preferred shares generally will recognize capital gain or loss for U.S. federal income tax purposes on the sale, exchange or disposition of common shares or preferred shares, as applicable.

Redemption of Preferred Shares. A redemption of the preferred shares will be treated under section 302 of the Code as a dividend if we have sufficient earnings and profits, unless the redemption satisfies one of the tests set forth in section 302(b) of the Code enabling the redemption to be treated as a sale or exchange, subject to the discussion herein relating to the potential application of the CFC, RPII and PFIC rules. Under the relevant Code section 302(b) tests, the redemption should be treated as a sale or exchange only if it (1) is substantially disproportionate, (2) constitutes a complete termination of the holder’s stock interest in us or (3) is “not essentially equivalent to a dividend.” In determining whether any of these tests are met, shares considered to be owned by the holder by reason of certain constructive ownership rules set forth in the Code, as well as shares actually owned, must generally be taken into account. It may be more difficult for a United States Person who owns, actually or constructively by operation of the attribution rules, any of our other shares to satisfy any of the above requirements. The determination as to whether any of the alternative tests of section 302(b) of the Code is satisfied with respect to a particular holder of the preference shares depends on the facts and circumstances as of the time the determination is made.

### Taxation of Our U.S. Shareholders

#### Controlled Foreign Corporation Rules

Under our bye-laws, the 9.9% voting restriction applicable to the Controlled Shares of a U.S. Person (as defined in our bye-laws) generally does not apply to certain of our investors. Depending upon the ownership of these investors and as a result of certain attribution rules, we and our foreign subsidiaries could be controlled foreign corporations (“CFCs”). That status as a CFC would not cause us or any of our subsidiaries to be subject to U.S. federal income tax. Such status also would have no adverse U.S. federal income tax consequences for any U.S. Holder that is considered to own less than 10% of the total combined voting power of our shares or those of our foreign subsidiaries. Only U.S. Holders that are considered to own 10% or more of the total combined voting power of our shares or those of our foreign subsidiaries (taking into account shares actually owned by such U.S. Holder as well as shares attributed to such U.S. Holder under the Code or the regulations there under) (a “10% U.S. Voting Shareholder”) would be affected by our status as a CFC. The preferred shares generally should not be considered voting stock for purposes of determining whether a United States Person would be a 10% U.S. Voting Shareholder. The shares may, however, become entitled to vote (as a class along with any other class of preferred shares of ACGL then outstanding) for the election of two additional members of the board of directors of ACGL if ACGL does not declare and pay dividends for the equivalent of six or more dividend periods. In such case, the preferred shares should be treated as voting stock for as long as such voting rights continue. Our bye-laws are intended to prevent any U.S. Holder from being considered a 10% U.S. Voting Shareholder by limiting the votes conferred by the Controlled Shares (as defined in our bye-laws) of any U.S. Person to 9.9% of the total voting power of all our shares entitled to vote. However, because under our bye-laws

certain funds associated with Warburg Pincus LLC and Hellman & Friedman LLC generally are entitled to vote their directly owned common shares in full, a U.S. Holder that is attributed (under the Code or the regulations there under) common shares owned by such funds may be considered a 10% U.S. Voting Shareholder. If we

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are a CFC, a U.S. Holder that is considered a 10% U.S. Voting Shareholder would be subject to current U.S. federal income taxation (at ordinary income tax rates) to the extent of all or a portion of the undistributed earnings and profits of ACGL and our subsidiaries attributable to “subpart F income” (including certain insurance premium income and investment income) and may be taxable at ordinary income tax rates on any gain realized on a sale or other disposition (including by way of repurchase or liquidation) of our shares to the extent of the current and accumulated earnings and profits attributable to such shares.

While our bye-laws are intended to prevent any member from being considered a 10% U.S. Voting Shareholder (except as described above), there can be no assurance that a U.S. Holder will not be treated as a 10% U.S. Voting Shareholder, by attribution or otherwise, under the Code or any applicable regulations there under.

### Related Person Insurance Income Rules

Generally, we do not expect the gross RPII (related person insurance income) of any of our non-U.S. subsidiaries to equal or exceed 20% of its gross insurance income in any taxable year for the foreseeable future and do not expect the direct or indirect insureds (and related persons) of any such subsidiary to directly or indirectly own 20% or more of either the voting power or value of our stock. Consequently, we do not expect any U.S. person owning common shares or preferred shares to be required to include in gross income for U.S. federal income tax purposes RPII income, but there can be no assurance that this will be the case.

Section 953(c)(7) of the Code generally provides that Section 1248 of the Code (which generally would require a U.S. Holder to treat certain gains attributable to the sale, exchange or disposition of common shares or preferred shares as a dividend) will apply to the sale or exchange by a U.S. shareholder of shares in a foreign corporation that is characterized as a CFC under the RPII rules if the foreign corporation would be taxed as an insurance company if it were a domestic corporation, regardless of whether the U.S. shareholder is a 10% U.S. Voting Shareholder or whether the corporation qualifies for either the RPII 20% ownership exception or the RPII 20% gross income exception.

Although existing U.S. Treasury Department (“Treasury”) regulations do not address the question, proposed Treasury regulations issued in April 1991 create some ambiguity as to whether Section 1248 and the requirement to file Form 5471 would apply when the foreign corporation has a foreign insurance subsidiary that is a CFC for RPII purposes and that would be taxed as an insurance company if it were a domestic corporation. We believe that Section 1248 and the requirement to file Form 5471 will not apply to a less than 10% U.S. Shareholder because ACGL is not directly engaged in the insurance business. There can be no assurance, however, that the IRS will interpret the proposed regulations in this manner or that the Treasury will not take the position that Section 1248 and the requirement to file Form 5471 will apply to dispositions of our common shares or our preferred shares.

If the IRS or Treasury were to make Section 1248 and the Form 5471 filing requirement applicable to the sale of our shares, we would notify shareholders that Section 1248 of the Code and the requirement to file Form 5471 will apply to dispositions of our shares. Thereafter, we would send a notice after the end of each calendar year to all persons who were shareholders during the year notifying them that Section 1248 and the requirement to file Form 5471 apply to dispositions of our shares by U.S. Holders. We would attach to this notice a copy of Form 5471 completed with all our information and instructions for completing the shareholder information.

### Tax-Exempt Shareholders

Tax-exempt entities may be required to treat certain Subpart F insurance income, including RPII, that is includible in income by the tax-exempt entity as unrelated business taxable income. Prospective investors that are tax exempt entities are urged to consult their tax advisors as to the potential impact of the unrelated business taxable income provisions of the Code.

### Passive Foreign Investment Companies

Sections 1291 through 1298 of the Code contain special rules applicable with respect to foreign corporations that are “passive foreign investment companies” (“PFICs”). In general, a foreign corporation will be a PFIC if 75% or more of its income constitutes “passive income” or 50% or more of its assets produce passive income. If we were to be characterized as a PFIC, U.S. Holders would be subject to a penalty tax at the time of their sale of (or receipt of an “excess distribution” with respect to) their common shares or preferred shares. In general, a shareholder receives an “excess distribution” if the amount of the distribution is more than 125% of the average distribution with respect to the shares during the three preceding taxable years (or shorter period during which the taxpayer held the stock). In

general, the penalty tax is

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equivalent to an interest charge on taxes that are deemed due during the period the shareholder owned the shares, computed by assuming that the excess distribution or gain (in the case of a sale) with respect to the shares was taxable in equal portions throughout the holder's period of ownership. The interest charge is equal to the applicable rate imposed on underpayments of U.S. federal income tax for such period. A U.S. shareholder may avoid some of the adverse tax consequences of owning shares in a PFIC by making a qualified electing fund ("QEF") election. A QEF election is revocable only with the consent of the IRS and has the following consequences to a shareholder:

• For any year in which ACGL is not a PFIC, no income tax consequences would result.

• For any year in which ACGL is a PFIC, the shareholder would include in its taxable income a proportionate share of the net ordinary income and net capital gains of ACGL and certain of its non-U.S. subsidiaries.

The PFIC statutory provisions contain an express exception for income "derived in the active conduct of an insurance business by a corporation which is predominantly engaged in an insurance business..." This exception is intended to ensure that income derived by a bona fide insurance company is not treated as passive income, except to the extent such income is attributable to financial reserves in excess of the reasonable needs of the insurance business. The PFIC statutory provisions contain a look-through rule that states that, for purposes of determining whether a foreign corporation is a PFIC, such foreign corporation shall be treated as if it "received directly its proportionate share of the income" and as if it "held its proportionate share of the assets" of any other corporation in which it owns at least 25% of the stock. We believe that we are not a PFIC, and we will use reasonable best efforts to cause us and each of our majority owned non-U.S. insurance subsidiaries not to constitute a PFIC.

No regulations interpreting the substantive PFIC provisions have yet been issued. The Commissioner of the IRS has indicated that guidance on certain PFIC issues should be issued shortly. Each U.S. Holder should consult his tax advisor as to the effects of these rules.

Proposed Legislation

On November 19, 2013, Senate Finance Committee then-Chairman Max Baucus (D-MT) released a tax reform discussion draft on international tax issues. A provision in the discussion draft would change the definition of a U.S. shareholder for CFC purposes and overhaul the PFIC rules, including eliminating the PFIC exception for certain insurance companies. On February 26, 2014, the House Ways and Means Committee Chairman Dave Camp published a tax reform proposal titled "Tax Reform Act of 2014," which was subsequently introduced to the Congress on December 11, 2014. The bill contains a provision that would significantly modify the PFIC exception for certain insurance companies.

Prospective investors should consult their own tax advisor regarding the likelihood that the provisions in these discussion drafts and tax reform proposal are enacted and any effect of such provisions.

United States Taxation of Non-U.S. Shareholders

Taxation of Dividends

Cash distributions, if any, made with respect to common shares or preferred shares held by shareholders who are not United States Persons ("Non-U.S. holders") generally will not be subject to United States withholding tax.

Sale, Exchange or Other Disposition

Non-U.S. holders of common shares or preferred shares generally will not be subject to U.S. federal income tax with respect to gain realized upon the sale, exchange or other disposition of such shares unless such gain is effectively connected with a U.S. trade or business of the Non-U.S. holder in the United States or such person is present in the United States for 183 days or more in the taxable year the gain is realized and certain other requirements are satisfied.

Information Reporting and Backup Withholding

Non-U.S. holders of common shares or preferred shares will not be subject to U.S. information reporting or backup withholding with respect to dispositions of common shares effected through a non-U.S. office of a broker, unless the broker has certain connections to the United States or is a United States person. No U.S. backup withholding will apply to payments of dividends, if any, on our common shares or our preferred shares.

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Sections 1471 through 1474 to the Code, known as the Foreign Account Tax Compliance Act (“FATCA”), impose a withholding tax of 30% on (i) U.S.-source interest, dividends and certain other types of income, and (ii) the gross proceeds from the sale or disposition of assets which produce such types of income, which are received by a foreign financial institution (“FFI”), unless such FFI enters into an agreement with the IRS to obtain certain information as to the identity of the direct and indirect owners of accounts in such institution. In addition, a 30% withholding tax may be imposed on the above payments to certain non-financial foreign entities which do not (i) certify to each respective withholding agent that they have no “substantial U.S. owners” (i.e., a U.S. 10% direct or indirect shareholder), or (ii) provide such withholding agent with the certain information as to the identity of such substantial U.S. owners. The United States is in the process of negotiating intergovernmental agreements to implement FATCA (“IGAs”) with a number of jurisdictions. Bermuda has signed an IGA with the United States. Different rules than those described above may apply under such an IGA.

Withholding on U.S.-source interest, dividends and certain other types of income applies from July 1, 2014, and withholding on gross proceeds will apply beginning on January 1, 2017. Prospective investors are urged to consult their own tax advisors as to the filing and information requirements that may be imposed on them in respect of their ownership of our common share or preferred shares.

### Other Tax Laws

Shareholders should consult their own tax advisors with respect to the applicability to them of the tax laws of other jurisdictions.

### ITEM 1A. RISK FACTORS

Set forth below are risk factors relating to our business. You should also refer to the other information provided in this report, including our “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our accompanying consolidated financial statements, as well as the information under the heading “Cautionary Note Regarding Forward-Looking Statements.”

#### Risks Relating to Our Industry

We operate in a highly competitive environment, and we may not be able to compete successfully in our industry. The insurance and reinsurance industry is highly competitive. We compete with major U.S. and non-U.S. insurers and reinsurers, many of which have greater financial, marketing and management resources than we do, as well as other potential providers of capital willing to assume insurance and/or reinsurance risk. We also compete with new companies that continue to be formed to enter the insurance and reinsurance markets. In addition, continued consolidation within the insurance and reinsurance industry will further enhance the already competitive underwriting environment. These consolidated entities may use their enhanced market power and broader capital base to negotiate price reductions for products and services that compete with ours, and we may experience rate declines and possibly write less business. In our insurance business, we compete with insurers that provide specialty property and casualty lines of insurance, including ACE Limited, Alleghany Corporation, Allied World Assurance Company, Ltd., American International Group, Inc., AXIS Capital Holdings Limited, Berkshire Hathaway, Inc., Chubb Corporation, CNA, Endurance Specialty Holdings Ltd., The Hartford Financial Services Group, Inc., HCC Insurance Holdings, Inc., Ironshore Inc., Liberty Mutual Insurance, Lloyd’s, Markel Insurance Company, RLI Corp., The Travelers Companies, W.R. Berkley Corp., XL Group plc and Zurich Insurance Group. In our reinsurance business, we compete with reinsurers that provide property and casualty lines of reinsurance, including ACE Limited, Alleghany Corporation, Argo International Holdings, Ltd., AXIS Capital Holdings Limited, Berkshire Hathaway, Inc., Endurance Specialty Holdings Ltd., Everest Re Group Ltd., Hannover Rückversicherung AG, Lloyd’s, Markel Global Reinsurance, Montpelier Re Holdings Ltd., Munich Re Group, PartnerRe Ltd., Platinum Underwriters Holdings, Ltd., RenaissanceRe Holdings Ltd., Swiss Reinsurance Company, Third Point Reinsurance Ltd., Validus Holdings Ltd. and XL Group plc. We do not believe that we have a significant market share in any of our markets.

Financial institutions and other capital markets participants also offer alternative products and services similar to our own or alternative products that compete with insurance and reinsurance products, such as insurance/risk-linked securities, catastrophe bonds and derivatives. In recent years, capital market participants have been increasingly active in the reinsurance market and markets for related risks. Certain of the new companies entering the insurance and reinsurance markets are pursuing more aggressive investment strategies than do we and other traditional reinsurers,

which may result in further downward pressure on premium rates. In this regard, in 2014 we sponsored a new property and casualty reinsurer,

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Watford Re, along with Highbridge. We perform underwriting services and Highbridge manages the investments, seeking higher yields and potentially assuming more risk than in our investment portfolio. If the investment and/or insurance underwriting strategy is not successful, we may be exposed to a risk of loss on our investment and in respect of the reinsurance cessions. In addition, we may not be aware of other companies that may be planning to enter the segments of the insurance and reinsurance market in which we operate.

Our competitive position is based on many factors, including our perceived overall financial strength, ratings assigned by independent rating agencies, geographic scope of business, client and broker relationships, premiums charged, contract terms and conditions, products and services offered (including the ability to design customized programs), appropriate and timely claim payments, reputation, experience and qualifications of employees and local presence. We may not be successful in competing with others on any of these bases, and the intensity of competition in our industry may erode profitability and result in less favorable policy terms and conditions for insurance and reinsurance companies generally, including us.

In our mortgage business, we compete with six active U.S. mortgage insurers, which include the mortgage insurance subsidiaries of Essent Group Ltd., Genworth Financial Inc., MGIC Investment Corporation, NMI Holdings Inc., Radian Group Inc. and United Guaranty Corporation. The level of competition within the private mortgage insurance industry has been intense and is not expected to diminish. In response to competitive pressures, among other factors, we reduced premium rates for both borrower-paid and lender-paid products in 2014. We are observing an increase in the number of lenders requesting customized lender-paid premium rate programs. In addition to pricing, we compete with other private mortgage insurers on the basis of terms and conditions, underwriting guidelines, loss mitigation practices, financial strength, reputation, customer relationships, technology, service and other factors. One or more private mortgage insurers may seek increased market share by reducing pricing, or loosening their underwriting guidelines or practices, which could adversely affect our mortgage insurance operations. Competition within the private mortgage insurance industry could result in the loss of customers, lower premiums, riskier credit guidelines and other changes that could lower our revenues or increase our expenses.

The mortgage insurance industry's business has been limited as a result of competition with the FHA, which substantially increased its market share beginning in 2008. In January 2015, FHA reduced the annual mortgage insurance premium it charges from 1.35% of the loan amount to 0.85%. This premium reduction will make private mortgage insurance less competitive with the FHA for borrowers with certain credit characteristics. Other factors that could cause FHA to maintain or increase its share of the mortgage insurance market include:

- a further reduction in the premiums charged for government mortgage insurance or a loosening of underwriting guidelines;
- imposition of additional loan level fees by the government sponsored entities ("GSEs"), Fannie Mae and Freddie Mac, on loans that require mortgage insurance;
- increases in GSE guaranty fees and the difference in the spread between Fannie Mae mortgage-backed securities ("MBS") and Ginnie Mae MBS; and
- the implementation of new regulations under the Dodd-Frank Act and the Basel III Rules.

If the FHA or other government-sponsored mortgage insurance programs maintain or increase their share of the mortgage insurance market, our mortgage insurance business could be adversely affected.

In addition to FHA and other federal mortgage insurance programs, lenders and investors may select other alternatives to private mortgage insurance, including:

- state-supported mortgage insurance funds in several states;
- lenders and other investors holding mortgages in portfolio and self-insuring;
- investors using credit enhancements other than mortgage insurance, using other credit enhancements in conjunction with reduced levels of mortgage insurance coverage, or accepting credit risk without credit enhancement; and
- lenders originating mortgages using "piggy-back" structures to avoid mortgage insurance, such as a first mortgage with an 80% loan-to-value and a second mortgage with a 10%, 15% or 20% loan-to-value (referred to



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as 80-10-10, 80-15-5 or 80-20 loans, respectively) rather than a first mortgage with a 90%, 95% or 100% loan-to-value that has mortgage insurance.

In our reinsurance and other risk sharing products, we have seen increased competition from other well capitalized and highly rated multiline reinsurers. It is our expectation that the depth and capacity of competitors from this segment will continue to increase over the next several years as more credit risk is borne by private capital.

Any alternatives to private mortgage insurance that develop could adversely affect our operations. Any failure by us to effectively compete within and outside the mortgage insurance industry could adversely affect our financial condition and results of operations.

The insurance and reinsurance industry is highly cyclical, and we expect to continue to experience periods characterized by excess underwriting capacity and unfavorable premium rates.

Historically, insurers and reinsurers have experienced significant fluctuations in operating results due to competition, frequency of occurrence or severity of catastrophic events, levels of capacity, general economic conditions, changes in equity, debt and other investment markets, changes in legislation, case law and prevailing concepts of liability and other factors. In particular, demand for reinsurance is influenced significantly by the underwriting results of primary insurers and prevailing general economic conditions. The supply of insurance and reinsurance is related to prevailing prices and levels of surplus capacity that, in turn, may fluctuate in response to changes in rates of return being realized in the insurance and reinsurance industry on both underwriting and investment sides. As a result, the insurance and reinsurance business historically has been a cyclical industry characterized by periods of intense price competition due to excessive underwriting capacity as well as periods when shortages of capacity permitted favorable premium levels and changes in terms and conditions. The supply of insurance and reinsurance has increased over the past several years and may increase further, either as a result of capital provided by new entrants or by the commitment of additional capital by existing insurers or reinsurers. Continued increases in the supply of insurance and reinsurance may have consequences for us, including fewer contracts written, lower premium rates, increased expenses for customer acquisition and retention, and less favorable policy terms and conditions.

Claims for catastrophic events could cause large losses and substantial volatility in our results of operations and could have a material adverse effect on our financial position and results of operations. As a result, the value of our securities, including our common shares and preferred shares, may fluctuate widely.

We have large aggregate exposures to natural and man-made catastrophic events. Catastrophes can be caused by various events, including hurricanes, floods, tsunamis, windstorms, earthquakes, hailstorms, tornados, explosions, severe winter weather, fires, droughts and other natural disasters. Catastrophes can also cause losses in non-property business such as workers' compensation or general liability. In addition to the nature of the property business, we believe that economic and geographic trends affecting insured property, including inflation, property value appreciation and geographic concentration tend to generally increase the size of losses from catastrophic events over time. Actual losses from future catastrophic events may vary materially from estimates due to the inherent uncertainties in making such determinations resulting from several factors, including the potential inaccuracies and inadequacies in the data provided by clients, brokers and ceding companies, the modeling techniques and the application of such techniques, the contingent nature of business interruption exposures, the effects of any resultant demand surge on claims activity and attendant coverage issues.

In addition, over the past several years, changing weather patterns and climatic conditions, such as global warming, have added to the unpredictability and frequency of natural disasters in certain parts of the world and created additional uncertainty as to future trends and exposures. Although the loss experience of catastrophe insurers and reinsurers has historically been characterized as low frequency, there is a growing consensus today that climate change increases the frequency and severity of extreme weather events and, in recent years, the frequency of major catastrophes appears to have increased. Claims for catastrophic events, or an unusual frequency of smaller losses in a particular period, could expose us to large losses and cause substantial volatility in our results of operations, which could have a material adverse effect on our ability to write new business and cause the value of our securities, including our common shares and preferred shares, to fluctuate widely.

We could face unanticipated losses from war, terrorism and political instability, and these or other unanticipated losses could have a material adverse effect on our financial condition and results of operations.





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We have substantial exposure to unexpected, large losses resulting from future man-made catastrophic events, such as acts of war, acts of terrorism and political instability. These risks are inherently unpredictable. It is difficult to predict the timing of such events with statistical certainty or estimate the amount of loss any given occurrence will generate. In certain instances, we specifically insure and reinsure risks resulting from acts of terrorism. Even in cases where we attempt to exclude losses from terrorism and certain other similar risks from some coverages written by us, we may not be successful in doing so. Moreover, irrespective of the clarity and inclusiveness of policy language, there can be no assurance that a court or arbitration panel will not limit enforceability of policy language or otherwise issue a ruling adverse to us. Accordingly, while we believe our reinsurance programs, together with the coverage provided under TRIPRA, are sufficient to reasonably limit our net losses relating to potential future terrorist attacks, we can offer no assurance that our available capital will be adequate to cover losses when they materialize. To the extent that an act of terrorism is certified by the Secretary of the Treasury and aggregate industry insured losses resulting from the act of terrorism exceeds the prescribed program trigger, our U.S. insurance operations may be covered under TRIPRA for up to 85% of their respective losses for 2015, 84% for 2016, 83% for 2017, 82% for 2018, 81% for 2019 and 80% for 2020, in each case subject to a mandatory deductible of 20% of our prior year's direct earned premium for covered property and liability coverages. The program trigger for calendar year 2015 is \$100 million and will increase by \$20 million per year until it becomes \$200 million in 2020. If an act (or acts) of terrorism result in covered losses exceeding the \$100 billion annual limit, insurers with losses exceeding their deductibles will not be responsible for additional losses. It is not possible to completely eliminate our exposure to unforecasted or unpredictable events, and to the extent that losses from such risks occur, our financial condition and results of operations could be materially adversely affected.

The insurance and reinsurance industry is subject to regulatory and legislative initiatives or proposals from time to time which could adversely affect our business.

From time to time, various regulatory and legislative changes have been proposed in the insurance and reinsurance industry. Among the proposals that are at present being considered are the possible introduction of global regulatory standards for the amount of capital that insurance groups must maintain across the group.

The extreme turmoil in the financial markets has increased the likelihood of changes in the way the financial services industry is regulated. Governmental authorities in the U.S. and worldwide have become increasingly interested in potential risks posed by the insurance industry as a whole, and to commercial and financial systems in general. While we cannot predict the exact nature, timing or scope of possible governmental initiatives, there may be increased regulatory intervention in our industry in the future. For example, the U.S. federal government has increased its scrutiny of the insurance regulatory framework in recent years, and some state legislators have considered or enacted laws that will alter and likely increase state regulation of insurance and reinsurance companies and holding companies. Moreover, the NAIC, which is an association of the insurance commissioners of all 50 states and the District of Columbia, regularly reexamines existing laws and regulations. There are also a variety of proposals being considered by various state legislatures.

Solvency II, the EU regulatory regime which was adopted in November 2009, imposes new solvency and governance requirements across all EU Member States. Although Solvency II was originally supposed to have become effective by November 1, 2012, it has been the subject of a number of delays in its implementation, and two "quick-fix" directives each pushed the implementation date back from an original implementation date of November 1, 2012. The most recent directive that amends Solvency II, the Omnibus II directive (Directive 2014/51/EU), was published and came into force in May 2014. Solvency II must now be transposed into the national law of each Member State by March 31, 2015 and implemented by firms by January 1, 2016.

The detail of the Solvency II project will be set out in "delegated acts" and binding technical standards which will be issued by the European Commission and will be legally binding. A delegated act, which sets out more detailed requirements for individual insurance undertakings as well as for groups based on the overarching provisions of Solvency II and which will make up the core of the single prudential rulebook for insurance and reinsurance undertakings in the EU, was published by the European Commission on October 10, 2014 and came into force on January 18, 2015. Solvency II imposes significant requirements for our EU-based regulated companies which require substantial documentation and implementation effort. Regulators in Bermuda and other jurisdictions in which we

operate are also considering various proposals for financial and regulatory reform. The BMA has implemented and imposed additional requirements on the companies it regulates, such as Arch Re Bermuda, as part of its efforts to achieve equivalence under Solvency II. While the BMA regulates Arch Re Bermuda as a long-term and general business insurer under the Insurance Act in Bermuda, the impact of the Group Rules may have an adverse effect on ACGL and our operations. The future impact of such initiatives, if any, on our results of operations or our financial condition cannot be determined at this time. We are unable to predict

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whether any of these laws and regulations will be adopted, the form in which any such laws and regulations would be adopted, or the effect, if any, these developments would have on our operations and financial condition, including the capital we are required to hold. Although EIOPA published draft advice to the European Commission on December 19, 2014 supporting key aspects of Bermuda's regulatory regime, with certain caveats, and is due to publish its final report on this issue, it is unclear exactly when the European Commission will take a final decision on whether or not it will recognize the solvency regime in Bermuda to be equivalent to that laid down in Solvency II. If the European Commission does not recognize the regime in Bermuda to be equivalent, this could have an adverse effect on our operations.

The U.S. mortgage insurance industry is subject to substantial federal and state regulation, which has increased in recent years. The U.S. mortgage insurance industry is also subject to increased federal and state regulatory scrutiny (including by state insurance regulatory authorities), which could generate new regulations, regulatory actions or investigations. Failure to comply with federal and state regulations promulgated by federal consumer protection authorities and state insurance regulatory authorities could lead to enforcement or disciplinary action, including the imposition of penalties and the revocation of our authorization to operate.

Underwriting risks and reserving for losses are based on probabilities and related modeling, which are subject to inherent uncertainties.

Our success is dependent upon our ability to assess accurately the risks associated with the businesses that we insure and reinsure. We establish reserves for losses and loss adjustment expenses which represent estimates involving actuarial and statistical projections, at a given point in time, of our expectations of the ultimate settlement and administration costs of losses incurred. We utilize actuarial models as well as available historical insurance industry loss ratio experience and loss development patterns to assist in the establishment of loss reserves. Most or all of these factors are not directly quantifiable, particularly on a prospective basis, and the effects of these and unforeseen factors could negatively impact our ability to accurately assess the risks of the policies that we write. Changes in the assumptions used by these models or by management could lead to an increase in our estimate of ultimate losses in the future. In addition, there may be significant reporting lags between the occurrence of the insured event and the time it is actually reported to the insurer and additional lags between the time of reporting and final settlement of claims. Unfavorable development in any of these factors could cause the level of reserves to be inadequate. In addition, the estimation of loss reserves is also more difficult during times of adverse economic and market conditions due to unexpected changes in behavior of claimants and policyholders, including an increase in fraudulent reporting of exposures and/or losses, reduced maintenance of insured properties or increased frequency of small claims. Changes in the level of inflation also result in an increased level of uncertainty in our estimation of loss reserves. As a result, actual losses and loss adjustment expenses paid will deviate, perhaps substantially, from the reserve estimates reflected in our financial statements.

If our loss reserves are determined to be inadequate, we will be required to increase loss reserves at the time of such determination with a corresponding reduction in our net income in the period in which the deficiency becomes known. It is possible that claims in respect of events that have occurred could exceed our claim reserves and have a material adverse effect on our results of operations, in a particular period, or our financial condition in general. As a compounding factor, although most insurance contracts have policy limits, the nature of property and casualty insurance and reinsurance is such that losses can exceed policy limits for a variety of reasons and could significantly exceed the premiums received on the underlying policies, thereby further adversely affecting our financial condition. As of December 31, 2014, our reserves for unpaid losses and loss adjustment expenses, net of unpaid losses and loss adjustment expenses recoverable, were approximately \$7.26 billion. Such reserves were established in accordance with applicable insurance laws and GAAP. Loss reserves are inherently subject to uncertainty. In establishing the reserves for losses and loss adjustment expenses, we have made various assumptions relating to the pricing of our reinsurance contracts and insurance policies and have also considered available historical industry experience and current industry conditions. Any estimates and assumptions made as part of the reserving process could prove to be inaccurate due to several factors, including the fact that relatively limited historical information has been reported to us through December 31, 2014.

In accordance with mortgage insurance industry practice, we only establish loss reserves for loans in our existing default inventory. Because our mortgage insurance reserving process does not take account of the impact of future losses from loans that are not in default, mortgage insurance loss reserves are not intended to be an estimate of total future losses. Our expectation of total future losses under our mortgage insurance policies in force at any period end is not reflected in our financial statements. In addition to establishing loss reserves for loans in default, under GAAP, we are required to establish a premium deficiency reserve for our mortgage insurance products if the amount of expected future losses for a

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particular product and maintenance costs for such product exceeds expected future premiums, existing reserves and the anticipated investment income. We evaluate whether a premium deficiency exists quarterly. There can be no assurance that premium deficiency reserves will not be required in future periods. If this were to occur, our results of operations and financial condition could be adversely affected.

The failure of any of the loss limitation methods we employ could have a material adverse effect on our financial condition or results of operations.

We have large aggregate exposures to natural and man-made catastrophic events. These risks are inherently unpredictable. It is difficult to predict the timing of such events with statistical certainty or estimate the amount of loss any given occurrence will generate. It is not possible to completely eliminate our exposure to unforecasted or unpredictable events and, to the extent that losses from such risks occur, our financial condition and results of operations could be materially adversely affected. Therefore, claims for natural and man-made catastrophic events could expose us to large losses and cause substantial volatility in our results of operations, which could cause the value of our common shares to fluctuate widely. In certain instances, we specifically insure and reinsure risks resulting from terrorism. Even in cases where we attempt to exclude losses from terrorism and certain other similar risks from some coverages written by us, we may not be successful in doing so. Moreover, irrespective of the clarity and inclusiveness of policy language, there can be no assurance that a court or arbitration panel will limit enforceability of policy language or otherwise issue a ruling adverse to us.

We seek to limit our loss exposure by writing a number of our reinsurance contracts on an excess of loss basis, adhering to maximum limitations on reinsurance written in defined geographical zones, limiting program size for each client and prudent underwriting of each program written. In the case of proportional treaties, we may seek per occurrence limitations or loss ratio caps to limit the impact of losses from any one or series of events. In our insurance operations, we seek to limit our exposure through the purchase of reinsurance. We cannot be certain that any of these loss limitation methods will be effective. We also seek to limit our loss exposure by geographic diversification. Geographic zone limitations involve significant underwriting judgments, including the determination of the area of the zones and the inclusion of a particular policy within a particular zone's limits. There can be no assurance that various provisions of our policies, such as limitations or exclusions from coverage or choice of forum, will be enforceable in the manner we intend as it is possible that a court or regulatory authority could nullify or void an exclusion or limitation, or legislation could be enacted modifying or barring the use of these exclusions and limitations. Disputes relating to coverage and choice of legal forum may also arise. Underwriting is inherently a matter of judgment, involving important assumptions about matters that are inherently unpredictable and beyond our control, and for which historical experience and probability analysis may not provide sufficient guidance. One or more catastrophic or other events could result in claims that substantially exceed our expectations, or the protections set forth in our policies could be voided, which, in either case, could have a material adverse effect on our financial condition or our results of operations, possibly to the extent of eliminating our shareholders' equity.

For our natural catastrophe exposed business, we seek to limit the amount of exposure we will assume from any one insured or reinsured and the amount of the exposure to catastrophe losses from a single event in any geographic zone. We monitor our exposure to catastrophic events, including earthquake and wind, and periodically reevaluate the estimated probable maximum pre-tax loss for such exposures. Our estimated probable maximum pre-tax loss is determined through the use of modeling techniques, but such estimate does not represent our total potential loss for such exposures. Our models employ both proprietary and vendor-based systems and include cross-line correlations for property, marine, offshore energy, aviation, workers compensation and personal accident. We seek to limit the probable maximum pre-tax loss to a specific level for severe catastrophic events. Currently, we seek to limit our 1-in-250 year return period net probable maximum loss from a severe catastrophic event in any geographic zone to approximately 25% of total shareholders' equity. We reserve the right to change this threshold at any time. Net probable maximum loss estimates are net of expected reinsurance recoveries, before income tax and before excess reinsurance reinstatement premiums. Loss estimates are reflective of the zone indicated and not the entire portfolio. Since hurricanes and windstorms can affect more than one zone and make multiple landfalls, our loss estimates include clash estimates from other zones. Our loss estimates do not represent our maximum exposures and it is highly likely that our actual incurred losses would vary materially from the modeled estimates. There can be no assurances

that we will not suffer pre-tax losses greater than 25% of our total shareholders' equity from one or more catastrophic events due to several factors, including the inherent uncertainties in estimating the frequency and severity of such events and the margin of error in making such determinations resulting from potential inaccuracies and inadequacies in the data provided by clients and brokers, the modeling techniques and the application of such techniques or as a result of a decision to change the percentage of shareholders' equity exposed to a

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single catastrophic event. Catastrophe modeling is a relatively new discipline that utilizes a mix of historical data, scientific theory and mathematical methods. We believe that there is considerable uncertainty in the data and parameter inputs for insurance industry catastrophe models. In that regard, there is no universal standard in the preparation of insured data for use in the models and the running of modeling software. In our view, the accuracy of the models depends heavily on the availability of detailed insured loss data from actual recent large catastrophes. Due to the limited number of events, there is significant potential for substantial differences between the modeled loss estimate and actual company experience for a single large catastrophic event. This potential difference could be even greater for perils with less modeled annual frequency, such as U.S. earthquake, or less modeled annual severity, such as European windstorm. We are also reliant upon third-party estimates of industry insured exposures and there is significant variation possible around the relationship between our loss and that of the industry following a catastrophic event. In addition, actual losses may increase if our reinsurers fail to meet their obligations to us or the reinsurance protections purchased by us are exhausted or are otherwise unavailable. See “Risk Factors—Risk Relating to Our Industry” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Natural and Man-Made Catastrophic Events.” Depending on business opportunities and the mix of business that may comprise our insurance and reinsurance portfolio, we may seek to adjust our self-imposed limitations on probable maximum pre-tax loss for catastrophe exposed business.

The risk associated with underwriting treaty reinsurance business could adversely affect us.

Like other reinsurers, our reinsurance group does not separately evaluate each of the individual risks assumed under reinsurance treaties. Therefore, we are largely dependent on the original underwriting decisions made by ceding companies. We are subject to the risk that the ceding companies may not have adequately evaluated the risks to be reinsured and that the premiums ceded may not adequately compensate us for the risks we assume.

While reinsurance and retrocessional coverage will be used to limit our exposure to risks, the availability of such arrangements may be limited, and counterparty credit and other risks associated with our reinsurance arrangements may result in losses which could adversely affect our financial condition and results of operations.

For the purposes of managing risk, we use reinsurance and also may use retrocessional arrangements. In the normal course of business, our insurance subsidiaries cede a portion of their premiums through pro rata, excess of loss and facultative reinsurance agreements. Our reinsurance subsidiaries purchase a limited amount of retrocessional coverage as part of their aggregate risk management program. In addition, our reinsurance subsidiaries participate in “common account” retrocessional arrangements for certain pro rata treaties. Such arrangements reduce the effect of individual or aggregate losses to all companies participating on such treaties, including the reinsurers, such as our reinsurance subsidiaries, and the ceding company. The availability and cost of reinsurance and retrocessional protection is subject to market conditions, which are beyond our control. As a result of such market conditions and other factors, we may not be able to successfully mitigate risk through reinsurance and retrocessional arrangements.

Further, we are subject to credit risk with respect to our reinsurance and retrocessions because the ceding of risk to reinsurers and retrocessionaires does not relieve us of our liability to the clients or companies we insure or reinsure. We monitor the financial condition of our reinsurers and attempt to place coverages only with carriers we view as substantial and financially sound. Although we have not experienced any material credit losses to date, an inability of our reinsurers or retrocessionaires to meet their obligations to us could have a material adverse effect on our financial condition and results of operations. Our losses for a given event or occurrence may increase if our reinsurers or retrocessionaires dispute or fail to meet their obligations to us or the reinsurance or retrocessional protections purchased by us are exhausted or are otherwise unavailable for any reason. Our failure to establish adequate reinsurance or retrocessional arrangements or the failure of our existing reinsurance or retrocessional arrangements to protect us from overly concentrated risk exposure could adversely affect our financial condition and results of operations.

Our reliance on brokers subjects us to their credit risk.

In accordance with industry practice, we generally pay amounts owed on claims under our insurance and reinsurance contracts to brokers, and these brokers, in turn, pay these amounts to the clients that have purchased insurance or reinsurance from us. In some jurisdictions, if a broker fails to make such payment, we may remain liable to the insured or ceding insurer for the deficiency. Likewise, in certain jurisdictions, when the insured or ceding company pays the



premiums for these contracts to brokers for payment to us, these premiums are considered to have been paid and the insured or ceding company will no longer be liable to us for those amounts, whether or not we have actually received the premiums from the

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broker. Consequently, we assume a degree of credit risk associated with our brokers. To date, we have not experienced any losses related to this credit risk.

Unexpected political legislative or judicial developments related to coverage may adversely affect us.

The effects of emerging claims and coverage issues are uncertain. The insurance industry is also affected by political, judicial and legal developments which have in the past resulted in new or expanded theories of liability. These or other changes could impose new financial obligations on us by extending coverage beyond our underwriting intent or otherwise require us to make unplanned modifications to the products and services that we provide, or cause the delay or cancellation of products and services that we provide. In some instances, these changes may not become apparent until sometime after we have issued insurance or reinsurance contracts that are affected by the changes. As a result, the full extent of liability under our insurance or reinsurance contracts may not be known for many years after a contract is issued. The effects of unforeseen developments or substantial government intervention could adversely impact our ability to achieve our goals.

The insurance businesses in which we operate may be subject to periodic negative publicity which may negatively impact our financial results.

Our products and services are ultimately distributed to individual and business customers. From time to time, consumer advocacy groups or the media may focus attention on insurance products and services, thereby subjecting the industry to periodic negative publicity. We also may be negatively impacted if competitors in one or more of our markets engage in practices resulting in increased public attention to our business. These factors may further increase our costs of doing business and adversely affect our profitability by impeding our ability to market our products and services, requiring us to change our products or services or by increasing the regulatory burdens under which we operate.

Changes in current accounting practices and future pronouncements may materially impact our reported financial results.

Developments in accounting practices, for example a convergence of U.S. GAAP with IFRS, may require considerable additional expense to comply with, particularly if we are required to prepare information relating to prior periods for comparable purposes or to apply the new requirements retroactively. The impact of changes in current accounting practices and future pronouncements cannot be predicted, but may affect the results of our operations, including among other things, the calculation of net income.

### Risks Relating to Our Company

Our success will depend on our ability to maintain and enhance effective operating procedures and internal controls and our ERM program.

Operational risk and losses can result from, among other things, fraud, errors, failure to document transactions properly or to obtain proper internal authorization, failure to comply with regulatory requirements, information technology failures, failure to appropriately transition new hires or external events. We continue to enhance our operating procedures and internal controls (including information technology initiatives and controls over financial reporting) to effectively support our business and our regulatory and reporting requirements. Our management does not expect that our disclosure controls or our internal controls will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. As a result of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons or by collusion of two or more people. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions; over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. As a result of the inherent limitations in a cost-effective control system, misstatement due to error or fraud may occur and not be detected. Accordingly, our

disclosure controls and procedures are designed to provide reasonable, not absolute, assurance that the disclosure controls and procedures are met. Any ineffectiveness in our controls or procedures could have a material adverse effect on our business.

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The NAIC has increased its focus on risks within an insurer's holding company system that may pose enterprise risk to the insurer. In 2010, the NAIC adopted amendments to its Model Insurance Holding Company System Regulatory Act and Regulation, which include, among other amendments, a requirement for the ultimate controlling person to file an enterprise risk report. In 2012, the NAIC adopted the ORSA Model Act, which requires domestic insurers to maintain a risk management framework and establishes a legal requirement for domestic insurers to conduct an ORSA in accordance with the NAIC's ORSA Guidance Manual. The ORSA Model Act also provides that, no more than once a year, an insurer's domiciliary regulator may request that an insurer submit an ORSA summary report, or any combination of reports that together contain the information described in the ORSA Guidance Manual, applicable to the insurer and/or the insurance group of which it is a member. We operate within an ERM framework designed to assess and monitor our risks. However, there can be no assurance that we can effectively review and monitor all risks or that all of our employees will operate within the ERM framework. There can be no assurance that our ERM framework will result in us accurately identifying all risks and accurately limiting our exposures based on our assessments.

A downgrade in our ratings or our inability to obtain a rating for our operating insurance and reinsurance subsidiaries may adversely affect our relationships with clients and brokers and negatively impact sales of our products.

Our operating insurance and reinsurance subsidiaries are rated by ratings agencies. Brokers negotiate contracts of insurance between insured and insurer on behalf of the insured and intermediaries negotiate contracts of reinsurance between a primary insurer and reinsurer, on behalf of the primary insurer. Third-party rating agencies, such as A.M. Best, assess and rate the financial strength of insurers and reinsurers based upon criteria established by the rating agencies, which criteria are subject to change. Ratings are an important factor in establishing the competitive position of insurance and reinsurance companies. Insureds, insurers, ceding insurers and intermediaries use these ratings as one measure by which to assess the financial strength and quality of insurers and reinsurers. These ratings are often an important factor in the decision by an insured, ceding insurer, broker or intermediary of whether to place business with a particular insurance or reinsurance provider. Our financial strength ratings are subject to periodic review as rating agencies evaluate us to confirm that we continue to meet their criteria for ratings assigned to us by them. Such ratings may be revised downward or revoked at the sole discretion of such ratings agencies in response to a variety of factors, including a minimum capital adequacy ratio, management, earnings, capitalization and risk profile. We can offer no assurances that our ratings will remain at their current levels. A ratings downgrade or the potential for such a downgrade, or failure to obtain a necessary rating, could adversely affect our relationships with agents, brokers, wholesalers, intermediaries, clients and other distributors of our existing products and services, as well as new sales of our products and services. In addition, under certain of the reinsurance agreements assumed by our reinsurance operations, upon the occurrence of a ratings downgrade or other specified triggering event with respect to our reinsurance operations, such as a reduction in surplus by specified amounts during specified periods, our ceding company clients may be provided with certain rights, including, among other things, the right to terminate the subject reinsurance agreement and/or to require that our reinsurance operations post additional collateral. Any ratings downgrade or failure to obtain a necessary rating could adversely affect our ability to compete in our markets, could cause our premiums and earnings to decrease and have a material adverse impact on our financial condition and results of operations. In addition, a downgrade in ratings of certain of our operating subsidiaries would in certain cases constitute an event of default under our credit facilities. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Contractual Obligations and Commercial Commitments—Letter of Credit and Revolving Credit Facilities" for a discussion of our credit facilities.

In light of the difficulties experienced recently by many financial institutions, including our competitors in the insurance industry, we believe it is possible that rating agencies may heighten the level of scrutiny they apply when analyzing companies in our industry, may increase the frequency and scope of their reviews, may request additional information from the companies that they rate (including additional information regarding the valuation of investment securities held), and may adjust upward the capital and other requirements employed in their models for maintenance of certain rating levels.

The loss of our key employees or our inability to retain them could negatively impact our business.

Our success has been, and will continue to be, dependent on our ability to retain the services of our existing key executive officers and to attract and retain additional qualified personnel in the future. The pool of talent from which we actively recruit is limited. Although, to date, we have not experienced difficulties in attracting and retaining key personnel, the inability to attract and retain qualified personnel could have a material adverse effect on our financial condition and results of operations. In addition, our underwriting staff is critical to our success in the production of business. While we do not consider any of our key executive officers or underwriters to be irreplaceable, the loss of the services of our key executive officers or underwriters or the inability to hire and retain other highly qualified personnel in the future could delay or prevent us from fully implementing our business strategy which could affect our financial performance.

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Technology breaches or failures, including, but not limited to, those resulting from a malicious cyber attack on us or our business partners and service providers, could disrupt or otherwise negatively impact our business.

We rely on information technology systems to process, transmit, store and protect the electronic information, financial data and proprietary models that are critical to our business. Furthermore, a significant portion of the communications between our employees and our business partners and service providers depends on information technology and electronic information exchange. Like all companies, our information technology systems are vulnerable to data breaches, interruptions or failures due to events that may be beyond our control, including, but not limited to, natural disasters, power outages, theft, terrorist attacks, computer viruses, hackers, errors in usage and general technology failures. Additionally, our employees and vendors may use portable computers or mobile devices which may contain similar information to that in our computer systems, and these devices can be stolen, lost or damaged. Security breaches could expose us to the loss or misuse of our information, litigation and potential liability. In addition, cyber incidents that impact the availability, reliability, speed, accuracy or other proper functioning of these systems could have a significant negative impact on our operations and possibly our results. An incident could also result in a violation of applicable privacy and other laws, damage our reputation, cause a loss of customers or give rise to monetary fines and other penalties, which could be significant.

We believe that we have established and implemented appropriate security measures, controls and procedures to safeguard our information technology systems and to prevent unauthorized access to such systems and any data processed and/or stored in such systems, and we periodically employ third parties to evaluate and test the adequacy of such systems, controls and procedures. In addition, we have established a comprehensive business continuity plan which is designed to ensure that we are able to maintain all aspects of our key business processes functioning in the midst of certain disruptive events, including any disruptions to or breaches of our information technology systems.

Our business continuity plan is routinely tested and evaluated for adequacy. Despite these safeguards, disruptions to and breaches of our information technology systems are possible and because we rely on our technology systems for many critical functions, including connecting with our customers, if such systems were to fail or become outmoded, we may experience a significant disruption in our operations and in the business we receive and process, which could adversely affect our results of operations and financial condition.

It is possible that insurance policies we have in place with third parties would not entirely protect us in the event that we experienced a breach, interruption or widespread failure of our information technology systems. Furthermore, we have not secured any insurance coverage designed to specifically protect us from the result of such events. Although we have experienced no known or threatened cases involving unauthorized access to our information technology systems and data or unauthorized appropriation of such data to date, we have no assurance that such technology breaches will not occur in the future.

The preparation of our financial statements requires us to make many estimates and judgments, which are even more difficult than those made in a mature company since relatively limited historical information has been reported to us through December 31, 2014.

The preparation of consolidated financial statements requires us to make many estimates and judgments that affect the reported amounts of assets, liabilities (including reserves), revenues and expenses, and related disclosures of contingent liabilities. On an ongoing basis, we evaluate our estimates, including those related to revenue recognition, insurance and other reserves, reinsurance recoverables, investment valuations, intangible assets, bad debts, income taxes, contingencies and litigation. We base our estimates on historical experience, where possible, and on various other assumptions that we believe to be reasonable under the circumstances, which form the basis for our judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Estimates and judgments for a relatively new insurance and reinsurance company, like our company, are even more difficult to make than those made in a mature company since relatively limited historical information has been reported to us through December 31, 2014. Instead, our current loss reserves are primarily based on estimates of exposures on reported claims and estimates involving actuarial and statistical projections of our expectations of the ultimate settlement and administration costs of claims incurred but not yet reported. We utilize actuarial models as well as historical insurance industry loss development patterns to establish our initial loss reserves. Over time, other common reserving methodologies have begun to be employed. Actual claims and claim expenses paid may deviate, perhaps substantially,

from the reserve estimates reflected in our financial statements.

The price of our common shares may be volatile.

There has been significant volatility in the market for equity securities. During 2014 and 2013, the price of our common shares fluctuated from a low of \$52.23 to a high of \$60.10 and from a low of \$44.00 to a high of \$59.78, respectively. On February 20, 2015, our common shares closed at a price of \$60.04. The price of our common shares may not remain at or

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exceed current levels. The following factors, in addition to those described in other risk factors above, may have an adverse impact on the market price of our common stock:

• actual or anticipated variations in our quarterly results, including as a result of catastrophes or our investment performance;

• our share repurchase program;

• changes in market valuation of companies in the insurance and reinsurance industry;

• changes in expectations of future financial performance or changes in estimates of securities analysts;

• fluctuations in stock market processes and volumes;

• issuances or sales of common shares or other securities in the future;

• the addition or departure of key personnel; and

• announcements by us or our competitors of acquisitions, investments or strategic alliances.

Stock markets in the U.S. continue to experience volatile price and volume fluctuations. Such fluctuations, as well as general political conditions, the current poor economic conditions or interest rate or currency rate fluctuations, could adversely affect the market price of our stock.

Adverse developments in the financial markets could have a material adverse effect on our results of operations, financial position and our businesses, and may also limit our access to capital; our policyholders, reinsurers and retrocessionaires may also be affected by such developments, which could adversely affect their ability to meet their obligations to us.

Adverse developments in the financial markets, such as disruptions, uncertainty or volatility in the capital and credit markets, may result in realized and unrealized capital losses that could have a material adverse effect on our results of operations, financial position and our businesses, and may also limit our access to capital required to operate our business. Depending on market conditions, we could incur additional realized and unrealized losses on our investment portfolio in future periods, which could have a material adverse effect on our results of operations, financial condition and business. Current economic conditions could also have a material impact on the frequency and severity of claims and therefore could negatively impact our underwriting returns. In addition, our policyholders, reinsurers and retrocessionaires may be affected by such developments in the financial markets, which could adversely affect their ability to meet their obligations to us. The volatility in the financial markets could continue to significantly affect our investment returns, reported results and shareholders' equity.

Our business is dependent upon insurance and reinsurance brokers and intermediaries, and the loss of important broker relationships could materially adversely affect our ability to market our products and services.

We market our insurance and reinsurance products primarily through brokers and intermediaries. We derive a significant portion of our business from a limited number of brokers. During 2014, approximately 13.4% and 15.0% of our gross premiums written were generated from or placed by Aon Corporation and its subsidiaries and Marsh & McLennan Companies and its subsidiaries, respectively. No other broker and no one insured or reinsured accounted for more than 10% of gross premiums written for 2014. Some of our competitors have higher financial strength ratings, offer a larger variety of products, set lower prices for insurance coverage, offer higher commissions and/or have had longer term relationships with the brokers we use than we have. This may adversely impact our ability to attract and retain brokers to sell our insurance products or brokers may increasingly promote products offered by other companies. The failure or inability of brokers to market our insurance products successfully, or loss of all or a substantial portion of the business provided by these brokers could have a material adverse impact on our business, financial condition and results of operations.

We could be materially adversely affected to the extent that managing general agents, general agents and other producers exceed their underwriting authorities or if our agents, our insureds or other third parties commit fraud or otherwise breach obligations owed to us.

For certain business conducted by our insurance group, following our underwriting, financial, claims and information technology due diligence reviews, we authorize managing general agents, general agents and other producers to write business on our behalf within underwriting authorities prescribed by us. In addition, Arch MI U.S. delegates the underwriting of a significant percentage of its primary new insurance written to certain mortgage lenders. Under this delegated underwriting program, the approved customer may determine whether mortgage loans meet our mortgage



insurance program

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guidelines and commit us to issue mortgage insurance. We rely on the underwriting controls of these agents to write business within the underwriting authorities provided by us. Although we monitor such business on an ongoing basis, our monitoring efforts may not be adequate or our agents may exceed their underwriting authorities or otherwise breach obligations owed to us. In addition, our agents, our insureds or other third parties may commit fraud or otherwise breach their obligations to us. To the extent that our agents, our insureds or other third parties exceed their underwriting authorities, commit fraud or otherwise breach obligations owed to us in the future, our financial condition and results of operations could be materially adversely affected.

We are exposed to credit risk in certain of our business operations.

In addition to exposure to credit risk related to our investment portfolio, reinsurance recoverables and reliance on brokers and other agents (each discussed elsewhere in this section), we are exposed to credit risk in other areas of our business related to policyholders. We are exposed to credit risk in our insurance group's surety unit where we guarantee to a third party that our policyholder will satisfy certain performance or financial obligations. If our policyholder defaults, we may suffer losses and be unable to be reimbursed by our policyholder. We are exposed to credit risk in our insurance group's construction and national accounts units where we write large deductible insurance policies. Under these policies, we are typically obligated to pay the claimant the full amount of the claim (shown as "contractholder payables" on our consolidated balance sheets). We are subsequently reimbursed by the policyholder for the deductible amount (shown as "contractholder receivables" on our consolidated balance sheets), which can be a set amount per claim and/or an aggregate amount for all covered claims. As such, we are exposed to credit risk from the policyholder. Additionally, we write retrospectively rated policies (i.e., policies in which premiums are adjusted after the policy period based on the actual loss experience of the policyholder during the policy period). In this instance, we are exposed to credit risk to the extent the adjusted premium is greater than the original premium. While we generally seek to mitigate this risk through collateral agreements that require the posting of collateral in such forms as cash and letters of credit from banks, our efforts to mitigate the credit risk that we have to our policyholders may not be successful. Although we have not experienced any material credit losses to date, an increased inability of our policyholders to meet their obligations to us could have a material adverse effect on our financial condition and results of operations.

Our investment performance may affect our financial results and ability to conduct business.

Our operating results depend in part on the performance of our investment portfolio. A significant portion of our cash and invested assets consists of fixed maturities (76.5% as of December 31, 2014). Although our current investment guidelines and approach stress preservation of capital, market liquidity and diversification of risk, our investments are subject to market-wide risks and fluctuations. In addition, we are subject to risks inherent in particular securities or types of securities, as well as sector concentrations. Changing market conditions could materially affect the future valuation of securities in our investment portfolio, which could cause us to impair some portion of those securities. We may not be able to realize our investment objectives, which could have a material adverse effect on our financial results. In the event that we are unsuccessful in correlating our investment portfolio with our expected insurance and reinsurance liabilities, we may be forced to liquidate our investments at times and prices that are not optimal, which could have a material adverse effect on our financial results and ability to conduct our business.

We may be adversely affected by changes in economic conditions, including interest rate changes, as well as legislative changes.

Our operating results are affected by, and we are exposed to, significant financial and capital markets risk, including changes in interest rates, real estate values, foreign currency exchange rates, market volatility, the performance of the economy in general, the performance of our investment portfolio and other factors outside our control.

In addition, our investment portfolio includes residential MBS. As of December 31, 2014, MBS constituted approximately 6.6% of our cash and invested assets. As with other fixed income investments, the fair value of these securities fluctuates depending on market and other general economic conditions and the interest rate environment. Changes in interest rates can expose us to changes in the prepayment rate on these investments. In periods of declining interest rates, mortgage prepayments generally increase and MBS are prepaid more quickly, requiring us to reinvest the proceeds at the then current market rates. Conversely, in periods of rising rates, mortgage prepayments generally fall, preventing us from taking full advantage of the higher level of rates. However, current economic conditions may

curtail prepayment activity as refinancing becomes more difficult, thus limiting prepayments on MBS. Interest rates are highly sensitive to many factors, including the fiscal and monetary policies of the U.S. and other major economies, inflation, economic and political conditions and other factors beyond our control. Although we attempt to take measures to manage the risks of investing in changing interest rate environments, we may not be able to mitigate interest rate

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sensitivity effectively. Despite our mitigation efforts, an increase in interest rates could have a material adverse effect on our book value.

The residential mortgage market in the U.S has experienced a variety of difficulties in certain underwriting periods and is only recently recovering from a period of severe home price depreciation. It is uncertain whether this recovery will continue. Delinquencies and losses with respect to residential mortgage loans generally increased for such periods and may continue to increase, particularly in the subprime sector. A decline or an extended flattening in residential property values may result in additional increases in delinquencies and losses on residential mortgage loans generally, especially with respect to any residential mortgage loans where the aggregate loan amounts (including any subordinate loans) are close to or greater than the related property values. These developments may have a significant adverse effect on the prices of loans and securities, including those in our investment portfolio. The situation continues to have wide ranging consequences, including downward pressure on economic growth and the potential for increased insurance and reinsurance exposures, which could have an adverse impact on our results of operations, financial condition, business and operations. Our portfolio includes commercial mortgage backed securities (“CMBS”). At December 31, 2014, CMBS constituted approximately 7.6% of our cash and invested assets. The commercial real estate market may experience price deterioration, which could lead to delinquencies and losses on commercial real estate mortgages.

Mortgage insurance losses result when a borrower becomes unable to continue to make mortgage payments and the home of such borrower cannot be sold for an amount that covers unpaid principal and interest and the expenses of the sale. Deteriorating economic conditions increase the likelihood that borrowers will have insufficient income to pay their mortgages and can adversely affect housing values. In addition, natural disasters or other catastrophic events could result in increased claims if such events adversely affected the employment and income of borrowers and the value of homes. Any of these events or deteriorating economic conditions could cause our mortgage insurance losses to increase and adversely affect our results of operations and financial condition.

Also, in each year, a significant portion of our mortgage insurance premiums will be from mortgage insurance written in prior years. Accordingly, the length of time insurance remains in force, referred to as persistency, is a significant driver of mortgage insurance revenues. Factors affecting persistency include:

- current mortgage interest rates compared to those rates on our insurance in force, which affects the likelihood of the insurance in force to be subject to borrower refinance;

- the amount of home equity, as homeowners with more equity in their homes can generally more readily move to a new residence or refinance their existing mortgage; and

- Mortgage insurance cancellation policies of mortgage investors and the cancellation of borrower-paid mortgage insurance, either upon request of the borrower or as required by law based upon the amortization schedule of the loan. If these or other factors cause the length of time our mortgage insurance policies remain in force to decline, our mortgage insurance revenues could be adversely affected.

Significant, continued volatility, changes in interest rates, a lack of pricing transparency, market liquidity, declines in equity prices and the strengthening or weakening of foreign currencies against the U.S. Dollar, individually or in tandem, could have a material adverse effect on our results of operations, financial condition or cash flows through realized losses, impairments and changes in unrealized positions

Market developments and government actions regarding the sovereign debt crisis in Europe, particularly in Portugal, Ireland, Italy, Greece and Spain, could have a material adverse effect on our business, financial condition, results of operations and liquidity.

The global recession and disruption of the financial markets has led to concerns over access to capital markets and the solvency of EU Member States, including Portugal, Ireland, Italy, Greece and Spain, and of financial institutions that have significant direct or indirect exposure to debt issued by, or the economies of, these countries. As of December 31, 2014, our investment portfolio does not contain significant investments in government bonds issued by Portugal, Ireland, Italy, Greece and Spain and in financial institutions that have significant direct or indirect exposure to debt issued by, or the economies of, those countries (see “Management’s Discussion and Analysis of Financial Condition and Results of Operations— Financial Condition, Liquidity and Capital Resources—Financial Condition—Investable Assets”). The continued uncertainty over the outcome of international financial support programs

and the possibility that EU Member States may experience similar financial troubles could further disrupt global markets. Recent rating agency downgrades on certain European sovereign debt, as well as downgrades on certain European financial institutions, and growing concern of the potential default

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of government issuers or of a possible withdrawal by one or more EU Member States from the Eurozone and/or a break-up of the EU has further contributed to this uncertainty. The negative impact of these events on economic conditions and global markets could have an adverse effect on our business, financial condition and liquidity. For example, this crisis may cause the value of the European currencies, including the Euro, to further depreciate against the U.S. Dollar, which in turn could materially adversely impact Euro-denominated assets held in our investment portfolio or our European book of business. In addition, the applicable legal framework and the terms of our Euro-denominated insurance policies and reinsurance agreements generally do not address withdrawal by a member state from the Eurozone or a break-up of the EU, which could create uncertainty in our payment obligations and rights under those policies and agreements in the event that such a withdrawal or break-up does occur. Additionally, a contagion effect of a possible default of one or more EU Member States and/or their withdrawal from the Eurozone, or the failure of financial institutions, on the global economy, including other EU Member States and our counterparties located in those countries, or a break-up of the EU could have a material adverse effect on our business, financial condition, results of operations and liquidity.

Certain of our investments are illiquid and are difficult to sell, or to sell in significant amounts at acceptable prices, to generate cash to meet our needs.

Our investments in certain securities, including certain fixed income and structured securities, investments in funds accounted for using the equity method, other investments and our investment in Gulf Re (joint venture) may be illiquid due to contractual provisions or investment market conditions. If we require significant amounts of cash on short notice in excess of anticipated cash requirements, then we may have difficulty selling these investments in a timely manner or may be forced to sell or terminate them at unfavorable values.

The determination of the amount of allowances and impairments taken on our investments is highly subjective and could materially impact our results of operations or financial position.

On a quarterly basis, we perform reviews of our investments to determine whether declines in fair value below the cost basis are considered other-than-temporary in accordance with applicable accounting guidance regarding the recognition and presentation of other-than-temporary impairments. The process of determining whether a security is other-than-temporarily impaired requires judgment and involves analyzing many factors. These factors include (i) an analysis of the liquidity, business prospects and overall financial condition of the issuer, (ii) the time period in which there was a significant decline in value, (iii) the significance of the decline, and (iv) the analysis of specific credit events. We evaluate the unrealized losses of our equity securities by issuer and determine if we can forecast a reasonable period of time by which the fair value of the securities would increase and we would recover our cost. If we are unable to forecast a reasonable period of time in which to recover the cost of our equity securities, we record a net impairment loss in earnings equivalent to the entire unrealized loss. There can be no assurance that our management has accurately assessed the level of impairments taken and allowances reflected in our financial statements. Furthermore, additional impairments may need to be taken or allowances provided for in the future. Historical trends may not be indicative of future impairments or allowances.

We may require additional capital in the future, which may not be available or only available on unfavorable terms.

We monitor our capital adequacy on a regular basis. The capital requirements of our business depend on many factors, including regulatory requirements, our ability to write new business successfully and to establish premium rates and reserves at levels sufficient to cover losses. Our ability to underwrite is largely dependent upon the quality of our claims paying and financial strength ratings as evaluated by independent rating agencies. To the extent that our existing capital is insufficient to fund our future operating requirements and/or cover claim losses, we may need to raise additional funds through financings or limit our growth. Any equity or debt financing, if available at all, may be on terms that are unfavorable to us. In the case of equity financings, dilution to our shareholders could result, and, in any case, such securities may have rights, preferences and privileges that are senior to those of our outstanding securities. Disruptions, uncertainty or volatility in the capital and credit markets may also limit our access to capital required to operate our business. Such market conditions may limit our ability to access the capital necessary to develop our business and replace, in a timely manner, our letters of credit facilities upon maturity. As such, we may be forced to delay raising capital or bear an unattractive cost of capital which could decrease our profitability and significantly reduce our financial flexibility. If we are not able to obtain adequate capital, our business, results of

operations and financial condition could be adversely affected. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources— Liquidity and Capital Resources.”

If we are unable to timely implement our U.S. mortgage insurance strategy, our financial results could be adversely affected.

On January 30, 2014, our U.S.-based subsidiaries completed the acquisition of CMG Mortgage Insurance Company (renamed Arch MI U.S.). Prior to the acquisition, CMG Mortgage Insurance Company had been a GSE-approved mortgage

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insurance company limited to only credit union customers. Our strategy, which we are now attempting to implement, is to broaden Arch MI U.S.'s customer base to national and regional mortgage banks and originators, while maintaining and increasing Arch MI U.S.'s share of the mortgage insurance credit union market. As of December 31, 2014, approximately 94% of Arch MI U.S.'s insurance in force was originated by credit unions and 6% was originated by national and regional mortgage banks. Of the risk written by Arch MI U.S. in 2014, approximately 76% was originated by credit unions and 24% was originated by national and regional mortgage banks. The ultimate success of our strategy will depend upon, among other factors, our ability to:

- continue to develop business relationships with national and regional mortgage banks and originators and obtain their approvals as an authorized mortgage insurance provider;
- continue to develop and implement necessary e-commerce connectivity with new customers' mortgage origination systems;
- maintain and expand business relationships with existing credit union customers; and
- retain and attract talent at Arch MI U.S. necessary to implement our U.S. mortgage insurance strategy.

Because of these factors, economic conditions and competitive dynamics, the extent to which we will be successful implementing our U.S. mortgage insurance strategy, and the timing of implementation, are uncertain. If we are unable to timely attract new, and retain existing, customers and process business efficiently and reliably, our results of operations and financial condition could be adversely affected.

We may fail to realize the growth prospects and other benefits anticipated from Arch MI U.S.

The success of our U.S. mortgage insurance strategy will depend, in part, on our ability to realize the anticipated business opportunities and growth prospects from acquiring Arch MI U.S. Many factors could cause us not to realize, in part or in whole, these anticipated business opportunities and growth prospects. Such factors include:

- We may be required to make unanticipated capital expenditures or investments in order to maintain, improve or sustain Arch MI U.S. or take write offs or impairment charges;
- We may be subject to unanticipated or unknown liabilities relating to Arch MI U.S.; and
- We might experience increased competition that limits our ability to expand our business.

If any of these factors limit our ability to successfully and fully implement our mortgage insurance strategy as we anticipated, our expectations of the future results of these operations might not be met.

The ultimate performance of the mortgage insurance portfolio we acquired in connection with our acquisition of Arch MI U.S. remains uncertain.

CMG Mortgage Insurance Company incurred significant losses during the period 2008 to 2012. At the closing of the acquisition, CMG Mortgage Insurance Company had insurance in force of approximately \$21.5 billion. The ultimate performance of the portfolio we acquired remains uncertain and subject to factors outside of our control, including, among others, changes in unemployment, home prices and interest rates in the U.S. Deteriorating economic conditions in the U.S. would adversely affect the performance of our acquired U.S. mortgage insurance portfolio and could adversely affect our results of operations and financial condition. Pursuant to the agreement related to the acquisition, we may pay additional consideration to the former owners of CMG Mortgage Insurance Company based on the actual results of CMG Mortgage Insurance Company's pre-closing portfolio over an agreed upon period.

The costs savings we realize from our services agreement with PMI is declining and the provision of services to PMI could hinder our ability to execute our U.S. mortgage insurance business plan.

Pursuant to a multi-year services agreement with PMI (the "Services Agreement"), we perform or assist with many of PMI's run-off operations. We believe that this arrangement allows us to leverage our operations and reduce costs associated with our technology systems and other mortgage insurance operations. The level of services required by PMI is decreasing and will continue to decrease. If the level of services required by PMI is less than anticipated or PMI terminates the Services Agreement, we may charge PMI a lower than anticipated portion of our own fixed costs and we may not achieve the cost savings anticipated. In addition, our performance under the Services Agreement could distract us from the execution of our U.S. mortgage insurance business plan. If we fail to perform services or fail to meet specified performance standards, PMI may terminate the Services Agreement and could exercise other remedies, including, under certain circumstances, the release to PMI of source code relating to our technology systems. PMI's insureds, with whom we deal on PMI's behalf, could seek





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remedies against us. If any of these events were to occur, our financial condition and results of operations could be adversely affected.

Our information technology systems may be unable to meet the demands of customers.

Our information technology systems service our insurance portfolios. Accordingly, we are highly dependent on the effective operation of these systems. While we believe that the systems are adequate to service our insurance portfolios, there can be no assurance that they will operate in all manners in which we intend or possess all of the functionality required by customers currently or in the future.

Our customers, especially our mortgage insurance customers, require that we conduct our business in a secure manner, electronically via the Internet or via electronic data transmission. We must continually invest significant resources in establishing and maintaining electronic connectivity with customers. In order to integrate electronically with new customers in the mortgage insurance industry, we require electronic connections between our systems and those of the industry's largest mortgage servicing systems and leading loan origination systems. Arch MI U.S. currently possesses connectivity with certain of these external systems, but there is no assurance that such connectivity is sufficient and we are undertaking new electronic integration efforts with third-party loan servicing and origination systems. Such efforts could significantly delay entry into certain markets or customers as the electronic integration process requires time and effort to complete. Our business, financial condition and operating results may be adversely affected if we do not possess or timely acquire the requisite set of electronic integrations necessary to keep pace with the technological demands of customers. See also, "Technology breaches or failures, including but not limited to, those resulting from a malicious cyber attack on us or our business partners and service providers, could disrupt or otherwise negatively impact our business."

Any future acquisitions, growth of our operations through the addition of new lines of insurance or reinsurance business through our existing subsidiaries or through the formation of new subsidiaries, expansion into new geographic regions and/or joint ventures or partnerships may expose us to risks.

We may in the future make acquisitions either of other companies or selected blocks of business, expand our business lines or enter into joint ventures. Any future acquisitions may expose us to challenges and risks, including: integrating financial and operational reporting systems and establishing satisfactory budgetary and other financial controls;

funding increased capital needs, overhead expenses or cash flow shortages that may occur if anticipated sales and revenues are not realized or are delayed, whether by general economic or market conditions or unforeseen internal difficulties;

obtaining management personnel required for expanded operations;

obtaining necessary regulatory permissions;

the value of assets acquired may be lower than expected or may diminish due to credit defaults or changes in interest rates and liabilities assumed may be greater than expected;

the assets and liabilities we may acquire may be subject to foreign currency exchange rate fluctuation; and

financial exposures in the event that the sellers of the entities we acquire are unable or unwilling to meet their indemnification, reinsurance and other obligations to us.

Our failure to manage successfully these operational challenges and risks may impact our results of operations. In addition, if the reserves established by us, as they relate to any acquired book of business, prove to be inadequate, then subject to whatever recourse we may have against the seller or reinsurers, we may be responsible for adverse development in such reserves.

If the volume of low down payment mortgage originations declines, the amount of mortgage insurance we write in the U.S. could decline, which would reduce our mortgage insurance revenues.

The size of the U.S. mortgage insurance market depends in large part upon the volume of low down payment home mortgage originations. Factors affecting the volume of low down payment mortgage originations include, among others:

restrictions on mortgage credit due to stringent underwriting standards and liquidity issues affecting lenders;

changes in mortgage interest rates and home prices, and other economic conditions in the U.S. and regional economies;



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population trends, including the rate of household formation; and

U.S. government housing policy.

A decline in the volume of low down payment home mortgage originations could decrease demand for mortgage insurance, decrease our U.S. new insurance written and reduce mortgage insurance revenues.

If the role of the GSEs in the U.S. housing market changes, or if the GSEs change other policies or practices, the amount of insurance that we write could decrease.

The GSEs are the beneficiaries of the significant majority of the insurance policies we issue as a result of their purchases, statutorily required or otherwise, of qualifying mortgage loans from lenders or investors. Accordingly, changes in the following or other GSE policies could significantly affect our U.S. mortgage insurance operations:

the amount of loans purchased by the GSEs that require mortgage insurance;

the level of private mortgage insurance coverage lenders select when private mortgage insurance is used as the required credit enhancement on low down payment mortgages;

GSE pricing, including the amount of loan level price adjustments and guaranty fees that the GSEs assess on loans that require mortgage insurance, which could reduce the demand for our products;

loan eligibility standards for loans purchased by the GSEs, which impact the conforming mortgage loan origination market, including loan quality and availability;

terms on which mortgage insurance coverage can be canceled before reaching the cancellation thresholds required by law;

purchases by the GSEs of credit enhancements other than mortgage insurance;

whether the GSEs influence mortgage lenders' selection of mortgage insurers providing coverage; and

the size of loans that are eligible for purchase or guaranty by the GSEs.

The charters of the GSEs require credit enhancement for low down payment mortgages in order for such loans to be eligible for purchase or guarantee by the GSEs. Lenders have typically used mortgage insurance to satisfy GSE charter credit enhancement requirements. If the charters of the GSEs were amended to change or eliminate the acceptability of private mortgage insurance, our new mortgage insurance business could decline significantly. The GSEs have various loan purchase programs that allow for different levels of mortgage insurance coverage. Under "charter coverage," certain lenders may choose a mortgage insurance coverage percentage that is less than the GSEs' "standard coverage" and only the minimum required by the GSEs' charters. The significant majority of Arch MI U.S.'s risk written in 2014 was on loans with GSE standard or higher coverage. We charge higher premium rates for higher coverage percentages. To the extent that lower coverage is selected on GSE loans we insure in the future, Arch MI U.S.'s revenue would be reduced.

The GSEs are operating under the conservatorship of the Federal Housing Finance Agency. In conservatorship, the GSEs could change their practices with respect to mortgage insurance or individual mortgage insurers, which could affect mortgage insurance coverage required by the GSEs on mortgage loans or Arch MI U.S.'s status as an eligible mortgage insurer. The GSEs practices also may be impacted by legislative or regulatory changes. The U.S. Congress is examining the role of the GSEs in the U.S. housing market and may implement structural and other changes to the GSEs. Since 2011, a number of legislative proposals have been introduced with regard to the future role of the GSEs, the structure of the secondary market and the role of the Federal government within the mortgage market. We cannot predict whether any of these proposals will become law or the impact any future legislation will have on our U.S. mortgage insurance operations.

As a result of the foregoing issues, it is uncertain what role the GSEs and the mortgage insurance industry will play in the housing finance system in the future or the impact of any such changes on Arch MI U.S. Changes in the GSEs' roles or practices could have a material adverse effect on our U.S. mortgage insurance business.

The premiums we charge for mortgage insurance on insured loans and the associated investment income may not be adequate to compensate for future losses from these loans.

We set premiums at the time a policy is issued based upon our expectations regarding likely performance over the life of insurance coverage. We generally cannot cancel mortgage insurance coverage or adjust renewal premiums during the life of a mortgage insurance policy. As a result, losses from higher than anticipated claims generally cannot be offset by premium increases on policies in force or mitigated by non-renewal or cancellation of insurance coverage.

The premiums we charge on

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our insurance in force and the associated investment income may not be adequate to compensate us for the risks and costs associated with the insurance coverage provided to customers. An increase in the number or size of claims, compared to what we anticipate, could adversely affect Arch MI U.S.'s results of operations and financial condition. Existing GSE eligibility requirements for mortgage insurers could reduce our operating flexibility or require us to contribute additional capital to Arch MI U.S.

Pursuant to their charters, the GSEs purchase low down payment loans insured by MIs that they determine to be qualified. Substantially all of Arch MI U.S.'s insurance written has been for loans sold to the GSEs. Fannie Mae and Freddie Mac have established approval requirements for eligible mortgage insurers. These requirements relate to most areas of Arch MI U.S.'s operations. In addition to these requirements applicable to all eligible mortgage insurers, the GSEs imposed conditions in connection with their approvals of Arch MI U.S. as a qualified mortgage insurer. These conditions require, among other things, that Arch MI U.S.:

- maintain, through December 31, 2016, minimum capital funding of \$400 million which may consist of statutory capital (policyholders' surplus plus contingency reserves), dedicated reinsurance trust assets for any primary business reinsured and a value for the purchased technology assets;

- maintain minimum statutory capital (defined as policyholders' surplus plus contingency reserves) of no less than \$260 million;

- maintain a risk-to-capital ratio of no greater than 18 to 1;

- refrain from paying dividends to affiliates for three years commencing February 2014;

- insure only (i) GSE-eligible loans, (ii) loans that are GSE-eligible, other than as related to loan amount, (iii) loans originated under a state housing finance agency program, (iv) loans that meet the requirements of a "Qualified Mortgage" under federal regulation, or (v) other loans not included in (i) through (iv) provided that such loans in aggregate not constitute more than 2% of Arch MI U.S.'s total outstanding risk in force with a coverage effective date on or after December 31, 2003;

- obtain prior written approval to enter into transactions involving the issuance of insurance on other than an individual loan "flow" basis;

- not enter into reinsurance or other risk share arrangements without prior written approval; and

- re-domicile from Wisconsin to another state if requested by Fannie Mae.

Arch MI U.S.'s GSE approvals also include additional conditions with respect to affiliate expense sharing arrangements, requirements to obtain a financial strength rating, provision of ancillary services (i.e., non-insurance) to customers, changes of ownership, and provisions regarding underwriting policies and claims processing. If Arch MI U.S. were to fail to meet GSE or state regulatory capital requirements, it could be required to suspend writing business in some or all states.

While we intend to adhere to these requirements, there can be no assurance that the GSEs will continue to treat Arch MI U.S. as an eligible mortgage insurer. The GSEs, as major purchasers of conventional mortgage loans in the United States, are the primary beneficiaries of Arch MI U.S.'s mortgage insurance coverage. If either or both of the GSEs were to cease to consider Arch MI U.S. an eligible mortgage insurer and, therefore, cease accepting our mortgage insurance products, our results of operations and financial condition would be adversely affected.

Proposed GSE eligibility requirements for mortgage insurers could require us to contribute additional capital to Arch MI U.S., could negatively impact our results of operations and financial condition, or reduce our operating flexibility. Fannie Mae and Freddie Mac have each published comprehensive eligibility requirements to become and remain a qualified mortgage insurer. See "Existing GSE eligibility requirements for mortgage insurers could reduce our operating flexibility or require us to contribute additional capital to Arch MI U.S." On July 10, 2014, the conservator of the GSEs, the FHFA, released for comment new eligibility requirements, known as the PMIERS. The draft PMIERS include revised financial requirements for mortgage insurers that require a mortgage insurer's "Available Assets" to meet or exceed "Minimum Required Assets." Under the draft PMIERS, "Available Assets" generally include only the most liquid assets of an insurer. "Minimum Required Assets" are calculated from PMIERS tables with several risk dimensions and are subject to a floor amount.



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The comment period for the draft PMIERS closed in September 2014. We currently expect publication of final PMIERS in the first half of 2015 with an effective date 180 days thereafter. We expect that mortgage insurers will have up to two years after the final PMIERS are published to meet the PMIERS' financial requirements. As set out in the draft PMIERS, a mortgage insurer that fails to certify by the effective date that it meets the PMIERS' financial requirements will be subject, at a minimum, to a transition plan to achieve compliance during the two year period. We estimate that Arch MI U.S.'s Available Assets exceeded its Minimum Required Assets as of December 31, 2014. Our estimate of Arch MI U.S.'s Minimum Required Assets is based upon its risk written as of December 31, 2014 as adjusted to reflect risk ceded to its affiliate, Arch Reinsurance Ltd., and third parties under quota share reinsurance arrangements. Under the draft PMIERS, risk transferred to a non-exclusive affiliated reinsurer, such as Arch Reinsurance Ltd., or to non-affiliated reinsurers, on a quota share basis may generally be deducted for the purposes of calculating Minimum Required Assets (based upon the projected amount of direct risk in force ceded under a stress economic scenario). However, the draft PMIERS also require a mortgage insurer to seek guidance from the GSEs to determine the amount of ceded risk that may be deducted in calculating Minimum Required Assets. The GSEs approved Arch MI U.S.'s reinsurance arrangements in connection with their approval of Arch MI U.S. as an eligible insurer in January 2014. They have not yet provided us with guidance as to the treatment of Arch MI U.S.'s reinsurance arrangements under the PMIERS.

Arch MI U.S.'s Minimum Required Assets ultimately required by the final PMIERS and its Available Assets will be affected by many factors, including:

- Changes in, or the timing of, the actual PMIERS adopted from the draft PMIERS, which may increase the amount of Arch MI U.S.'s Minimum Required Assets or reduce its Available Assets;
- Macro-economic conditions, including the future performance of the housing market, which could negatively affect the performance of our mortgage insurance portfolio (including its loss development);
- The size and composition of Arch MI U.S.'s mortgage insurance portfolio at the applicable time of measurement; and
- The manner in which the PMIERS are interpreted and applied by the GSEs, including their determinations of the amount of ceded risk that Arch MI U.S. may deduct in its calculation of Minimum Required Assets.

As a result of these and other factors, the amount of capital ultimately required may vary significantly from the amounts we currently anticipate. Primarily as a result of Arch MI U.S.'s projected insurance portfolio growth in 2015 and thereafter, we currently expect that we will need to contribute additional capital to Arch MI U.S. to satisfy existing GSE financial conditions for approval and the final PMIERS' financial requirements. Although we currently intend that Arch MI U.S. will meet the additional capital requirements contained in the PMIERS by the PMIERS' effective date, we cannot be sure that the amount of capital required will not be materially higher than we currently anticipate or that we will be able to meet the capital requirements on this timetable, in the manner or on the terms currently contemplated, if at all. Further, increases in Arch MI U.S.'s capital in order to satisfy the PMIERS may decrease Arch MI U.S.'s return on capital unless it raises premiums, which may not be feasible due to competition. See "We operate in a highly competitive environment, and we may not be able to compete successfully in our industry." There also can be no assurance that the GSEs will not make the PMIERS' financial requirements more onerous in the future. The draft PMIERS provide that the tables of factors that determine Minimum Required Assets may be updated to reflect changes in risk characteristics and macroeconomic conditions. If Arch MI U.S. ceases to be eligible to insure loans purchased by one or both GSEs, it would adversely affect our financial condition and results of operations. The draft PMIERS contain extensive requirements related to the operation of our mortgage insurance business, including imposing additional operational requirements in areas such as claim processing, loss mitigation, underwriting, quality control, and reporting. The requirements in the draft PMIERS, if adopted in their current form, could require us to make changes to our business practices and incur additional costs in order to achieve and maintain compliance with the PMIERS.

The mix of business we write affects Arch MI U.S.'s losses and will affect its future compliance with the final PMIERS financial requirements.

Our mortgage insurance portfolio includes loans with loan-to-value ratios exceeding 95%, loans with FICO scores below 620, adjustable rate mortgages, or ARMs, reduced documentation loans and less than A-quality loans. Even



when housing values are stable or rising, we expect higher default and claim rates for high loan-to-value loans, loans with lower

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FICO scores, ARMs, reduced documentation loans, and less-than-A quality loans. Although we attempt to incorporate the higher default and claim rates associated with these loans into our underwriting and pricing models, there can be no assurance that the premiums earned and the associated investment income will adequately compensate us for future losses from these loans. From time to time, we change the types of loans that we insure and the requirements under which we insure them. In 2014, we modestly expanded our underwriting guidelines and we expect this trend to continue.

The geographic mix of Arch MI U.S.'s business could increase losses and harm our financial performance. We are affected by economic downturns and other events in specific regions of the United States where a large portion of our U.S. mortgage insurance business is concentrated. As of December 31, 2014, 4.9% of Arch MI U.S.'s primary risk-in-force was located in Florida, 5.4% was located in Texas and 8.6% was located in California. Historically, Arch MI U.S. has experienced higher levels of losses in those states.

Arch MI U.S.'s Minimum Required Assets under the PMIERS will be determined, in part, by the particular risk profiles of the loans it insures. If, absent other changes, Arch MI U.S.'s mix of business changes to include more loans with higher loan-to-value ratios or lower credit scores, it will have a higher Minimum Required Asset amount under the PMIERS and, accordingly, be required to hold more Available Assets in order to maintain GSE eligibility. State regulation of mortgage insurers could in the future cause Arch MI U.S. to need additional capital to fund its operations or expand its business and, if we are unable or unwilling to provide it with such capital, it may be unable to operate or expand, which could adversely affect our financial condition or results of operations.

Arch MI U.S. may require additional capital to support its growth and comply with regulatory and GSE requirements. Arch MI U.S.'s principal regulator is the Wisconsin OCI. Under Wisconsin law, as well as that of 15 other states, a mortgage insurer must maintain minimum statutory capital relative to its risk-in-force in order for the mortgage insurer to continue to write new business. While formulations of minimum capital vary by jurisdiction, the most common measure applied allows for a maximum permitted risk to capital ratio of 25 to 1. Wisconsin and certain other states, including California and Illinois, apply a substantially similar requirement referred to as minimum policyholders position.

Potential changes to state mortgage insurance regulations could reduce Arch MI U.S.'s profitability and its ability to compete with credit enhancement alternatives to mortgage insurance.

The NAIC, which reviews state insurance laws and regulations, has established a Mortgage Guaranty Insurance Working Group ("Working Group") to make recommendations to the NAIC's Financial Condition Committee regarding changes to the NAIC's Mortgage Guaranty Insurance Model Act. The Working Group has released a draft Model Act which includes proposed changes to minimum statutory capital requirements and changes to the extent to which, and period for which, mortgage insurers must establish and hold contingency reserves.

If the NAIC revises the Model Act, some state legislatures are likely to enact and implement part or all of the revised provisions. While we cannot predict the effect that any NAIC recommendations or future legislation may have on Arch MI U.S., such changes could reduce Arch MI U.S.'s profitability and its ability to compete with credit enhancement alternatives to mortgage insurance, which could adversely affect our financial condition or results of operations.

Our mortgage insurance business is dependent on maintaining and expanding our customer base.

The success of our U.S. mortgage insurance operations is highly dependent on our ability to attract and retain non-credit union customers and, particularly, the large lenders that originate a significant majority of low down payment mortgages in the U.S. To insure loans originated by these originators, we must obtain their respective approvals as an authorized mortgage insurer and establish connectivity with their mortgage origination systems. The process of obtaining lender approvals and integrating our systems can be time-consuming and requires the coordination of significant lender resources. There is no assurance we will receive approvals from these lenders or establish system connectivity with them in a timely manner or at all. If we cannot timely obtain such approvals, or fail to obtain and retain approvals, Arch MI U.S.'s business, financial condition and operating results could be adversely affected. The loss of a significant customer could reduce our mortgage insurance revenue and, if not replaced, adversely affect our financial condition and results of operations.

Increasing consolidation among mortgage lenders, including recent mergers in the U.S. banking industry, will continue to result in significant customer concentration for U.S. mortgage insurers. As a result of this significant concentration, Fannie Mae, Freddie Mac and the largest mortgage lenders possess substantial market power, which enables them to influence our business and the mortgage insurance industry in general. Deterioration in any of these relationships, or the loss of business from our key customers, could adversely affect our financial condition and results of operations.

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If servicers fail to adhere to appropriate servicing standards or experience disruptions to their businesses, our mortgage insurance operations could be adversely affected.

Our mortgage insurance policies require our customers and their servicers to timely submit premium and reports and utilize commercially reasonable efforts to limit and mitigate loss when a loan is in default. If one or more servicers failed to adhere to these requirements, our financial results could be adversely affected. Without reliable servicing, we may be unable to process new mortgage insurance business or service existing insured loans.

Arch MI U.S. could be adversely affected if, and to the extent that, the CFPB's final rule defining a qualified mortgage reduces the size of the origination market or private mortgage insurance market.

The Dodd-Frank Act authorized the CFPB to issue regulations governing a loan originator's determination that, at the time a loan is originated, the consumer has a reasonable ability to repay the loan ("ATR"). The CFPB's ATR regulations became effective for residential mortgage loan applications received on January 10, 2014. The Dodd-Frank Act provides a statutory presumption that a borrower will have the ability to repay a loan if the loan meets the definition of "qualified mortgage" ("QM"), contained in the CFPB ATR regulations. Because of the QM standard that gives presumption of compliance, we believe that most newly-originated mortgages are QMs. The significant majority of new risk written by Arch MI U.S. in 2014 was for loans that would have met the CFPB's QM definition. In 2015, we expect to offer mortgage insurance products for loans that do not meet the QM definition. Our operating results could be adversely impacted if the QM regulations reduce the size of the origination market, reduce the willingness of lenders to extend low down payment credit, favor alternatives to private mortgage insurance such as government mortgage insurance programs, or change the mix of mortgage insurance business in ways that may be unfavorable to us.

Under the ATR regulations, if the lender requires the borrower to purchase mortgage insurance, the mortgage insurance premiums are included in monthly mortgage costs in determining the borrower's ability to repay the loan. The demand for mortgage insurance may decrease if monthly mortgage insurance premiums make it less likely that a loan will qualify for QM status. In addition, under the ATR regulations, mortgage insurance premiums payable at or prior to consummation of the loan are under certain circumstances included in points and fees. The QM rule includes a limitation on points and fees in excess of 3% of the total loan amount. Mortgage originators may be less likely to purchase single premium mortgage insurance products to the extent that the associated premiums are deemed to be points and fees.

HUD's definition of QM that applies to loans insured by the FHA became effective in January 2014. HUD's QM definition is less restrictive than the CFPB's definition in certain respects. To the extent that government agencies adopt their own definitions of a qualified mortgage and those definitions are more favorable to lenders than those applicable to the market in which private mortgage insurers participate, our business may be adversely affected. The Dodd-Frank Act also generally requires an issuer of an asset-backed security or initiator of an asset-backed transaction (a "securitizer") to retain at least 5% of the risk associated with securitized mortgage loans, although in some cases the retained risk may be allocated between the securitizer and the mortgage originator. Lenders that originate loans that are sold to the GSEs while they are in conservatorship will not be required to retain risk associated with those loans. Changes in the conservatorship status of the GSEs or capital support provided to the GSEs by the U.S. government could impact the manner in which the credit risk retention rules apply to the GSEs. This risk-retention requirement also does not apply to a mortgage loan that is a QRM or that is insured or guaranteed by FHA or certain other federal agencies. In October 2014, federal regulators issued a risk-retention rule that generally defines QRM as a mortgage meeting the requirements of a QM. As the risk retention rule treats all QM loans as QRMs, low down payment loans with private mortgage insurance that do not meet the requirements of the QM rule can only be securitized with a risk retention requirement, which may deter their origination and adversely affect Arch MI U.S.'s business.

The implementation of the Basel III Capital Accord may adversely affect the use of mortgage insurance by certain banks.

In 1988, the Basel Committee on Banking Supervision developed the Basel Capital Accord, "Basel I," which set out international benchmarks for assessing banks' capital adequacy requirements. In 2005, the Basel Committee issued "Basel II" which, among other things, governs the capital treatment of mortgage insurance purchased and held on

balance sheet by banks in respect of their origination and securitization activities. In July 2013, federal agencies approved publication of final regulatory capital rules, called the “Basel III Rules.” With certain exceptions, the Basel III Rules became effective on January 1, 2014. If implementation of the Basel III Rules increases the capital requirements of banking organizations with respect to the residential mortgages we insure or does not provide sufficiently favorable treatment for the use of mortgage insurance, it could adversely affect the demand for mortgage insurance.

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Some of the provisions of our bye-laws and our shareholders agreement may have the effect of hindering, delaying or preventing third party takeovers or changes in management initiated by shareholders. These provisions may also prevent our shareholders from receiving premium prices for their shares in an unsolicited takeover.

Some provisions of our bye-laws could have the effect of discouraging unsolicited takeover bids from third parties or changes in management initiated by shareholders. These provisions may encourage companies interested in acquiring us to negotiate in advance with our board of directors, since the board has the authority to overrule the operation of several of the limitations.

Among other things, our bye-laws provide:

for a classified board of directors, in which the directors of the class elected at each annual general meeting holds office for a term of three years, with the term of each class expiring at successive annual general meetings of shareholders;

that the number of directors is determined by the board from time to time by a vote of the majority of our board; that directors may only be removed for cause, and cause removal shall be deemed to exist only if the director whose removal is proposed has been convicted of a felony or been found by a court to be liable for gross negligence or misconduct in the performance of his or her duties;

that our board has the right to fill vacancies, including vacancies created by an expansion of the board; and

for limitations on shareholders' right to raise proposals or nominate directors at general meetings.

Our bye-laws provide that certain provisions which may have anti-takeover effects may be repealed or altered only with prior board approval and upon the affirmative vote of holders of shares representing at least 65% of the total voting power of our shares entitled generally to vote at an election of directors.

The bye-laws also contain a provision limiting the rights of any U.S. person (as defined in section 7701(a)(30) of the Internal Revenue Code of 1986, as amended (the "Code")) that owns shares of ACGL, directly, indirectly or constructively (within the meaning of section 958 of the Code), representing more than 9.9% of the voting power of all shares entitled to vote generally at an election of directors. The votes conferred by such shares of such U.S. person will be reduced by whatever amount is necessary so that after any such reduction the votes conferred by the shares of such person will constitute 9.9% of the total voting power of all shares entitled to vote generally at an election of directors. Notwithstanding this provision, the board may make such final adjustments to the aggregate number of votes conferred by the shares of any U.S. person that the board considers fair and reasonable in all circumstances to ensure that such votes represent 9.9% of the aggregate voting power of the votes conferred by all shares of ACGL entitled to vote generally at an election of directors. ACGL will assume that all shareholders (other than specified persons) are U.S. persons unless we receive assurance satisfactory to us that they are not U.S. persons.

Moreover, most states, including states in which our subsidiaries are domiciled, have laws and regulations that require regulatory approval of a change in control of an insurer or an insurer's holding company. Where such laws apply to us and our subsidiaries, there can be no effective change in our control unless the person seeking to acquire control has filed a statement with the regulators and has obtained prior approval for the proposed change from such regulators.

The usual measure for a presumptive change in control pursuant to these laws is the acquisition of 10% or more of the voting power of the insurance company or its parent, although this presumption is rebuttable. Consequently, a person may not acquire 10% or more of our common shares without the prior approval of insurance regulators in the state in which our subsidiaries are domiciled.

The bye-laws also provide that the affirmative vote of at least 66 2/3% of the outstanding voting power of our shares (excluding shares owned by any person (and such person's affiliates and associates) that is the owner of 15% or more (a "15% Holder") of our outstanding voting shares) shall be required for various corporate actions, including:

merger or consolidation of the company into a 15% Holder;

sale of any or all of our assets to a 15% Holder;

the issuance of voting securities to a 15% Holder; or

amendment of these provisions;

provided, however, the supermajority vote will not apply to any transaction approved by the board.



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The provisions described above may have the effect of making more difficult or discouraging unsolicited takeover bids from third parties. To the extent that these effects occur, shareholders could be deprived of opportunities to realize takeover premiums for their shares and the market price of their shares could be depressed. In addition, these provisions could also result in the entrenchment of incumbent management.

Our operating insurance and reinsurance subsidiaries are subject to regulation in various jurisdictions, and violations of existing regulations or material changes in the regulation of their operations could adversely affect us.

Our insurance and reinsurance subsidiaries are subject to government regulation in each of the jurisdictions in which they are licensed or authorized to do business. Governmental agencies have broad administrative power to regulate many aspects of the insurance business, which may include trade and claim practices, accounting methods, premium rates, marketing practices, claims practices, advertising, policy forms, and capital adequacy. These agencies are concerned primarily with the protection of policyholders rather than shareholders. Governmental agencies may censure, impose fines, additional capital requirements or limitations on our operations, and/or impose criminal sanctions for violation of regulatory requirements. Moreover, insurance laws and regulations, among other things:

- establish solvency requirements, including minimum reserves and capital and surplus requirements;
- limit the amount of dividends, tax distributions, intercompany loans and other payments our insurance subsidiaries can make without prior regulatory approval;
- impose restrictions on the amount and type of investments we may hold;
- require assessments through guaranty funds to pay claims of insolvent insurance companies; and
- require participation in state-assigned risk plans which may take the form of reinsuring a portion of a pool of policies or the direct issuance of policies to insureds.

The NAIC continuously examines existing laws and regulations in the U.S. We cannot predict the effect that any NAIC recommendations or proposed or future legislation or rule making in the U.S. or elsewhere may have on our financial condition or operations.

Our Bermuda insurance and reinsurance subsidiary, Arch Re Bermuda, conducts its business from its offices in Bermuda and is not licensed or admitted to do business in any jurisdiction except Bermuda. However, Arch Re Bermuda has been approved as a “certified reinsurer” in certain U.S. states that allow reduced collateral for reinsurance ceded to such insurers; such “certified reinsurers” are subject to certain insurance laws in the U.S. states where they are certified. Recent scrutiny of the insurance and reinsurance industry in the U.S. and other countries could subject Arch Re Bermuda to additional regulation. Our U.S. insurance and reinsurance subsidiaries write insurance and reinsurance in the U.S. These subsidiaries are subject to extensive regulation under state statutes which delegate regulatory, supervisory and administrative powers to state insurance commissioners. Such regulation generally is designed to protect policyholders rather than investors. Arch Insurance Canada writes insurance in Canada and Arch Re U.S., through a branch, writes reinsurance in Canada and each is subject to federal, as well as provincial and territorial, regulation in Canada.

Arch Insurance Europe conducts its business from London and branch offices in certain EU countries and is subject to the insurance regulations of the U.K. Arch Risk Partners is also based in the U.K. and subject to U.K. regulations.

Arch Re Europe, Arch MI Europe, and Arch Underwriters Europe, our subsidiaries in Ireland, conduct their business from Ireland and are subject to the regulations in Ireland. Arch Re Europe also conducts business from branch offices in Switzerland and the U.K., as well as in Denmark. Arch Insurance Europe, Arch Re Europe, Arch Risk Partners, Arch MI Europe and Arch Underwriters Europe are also subject to the EU regulations and regulations of the respective EU Member States where they have established branches or in which they conduct business with respect to the conduct of their business in such EU Member State, but each company remains subject only to the financial and operational supervision of the PRA or FCA (as applicable), in the case of Arch Insurance Europe and Arch Risk Partners, and the CBOI, in the case of Arch Re Europe, Arch MI and Arch Underwriters Europe. Arch Insurance Europe, Arch MI Europe, Arch Risk Partners, Arch Re Europe and Arch Underwriters Europe have the freedom to provide their respective insurance and reinsurance services anywhere in the EEA subject to compliance with certain rules governing such provision, including notification to the PRA or FCA (as applicable) and the CBOI, respectively. Arch Insurance Company Europe is eligible to write excess and surplus lines insurance in all 50 states, the District of Columbia, the U.S. Virgin Islands, Guam the Northern Mariana Islands and American Samoa by virtue of its listing



on the NAIC International Insurers Department's Quarterly listing of Alien Insurers pursuant to the Nonadmitted and Reinsurance Reform Act of 2010. In addition, AUAL, on behalf of Arch Syndicate 2012, is approved to underwrite excess and surplus lines insurance in most states in the U.S. through Lloyd's licenses.

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Our U.S., Bermuda, Canada, U.K. and Ireland subsidiaries are required to maintain minimum capital and surplus as mandated by their respective jurisdictions of incorporation and, in some cases, by the jurisdictions in which those subsidiaries write business. Arch Insurance Company Europe is required to maintain minimum capital surplus as mandated by the NAIC and where it is eligible to write excess and surplus lines insurance. All of our subsidiaries are currently in compliance with these capital and surplus requirements.

In addition, virtually all U.S. states require insurers licensed to do business therein to bear a portion of contingent and incurred claim handling expenses and the unfunded amount of “covered” claim and unearned premium obligations of impaired or insolvent insurance companies, either up to the policy's limit, the applicable guaranty fund covered claim obligation cap, or 100% of statutorily defined workers' compensation benefits, subject to applicable deductibles. These obligations are funded by assessments, made on a retrospective, prospective or prefunded basis, which are levied by guaranty associations within the state, up to prescribed limits (typically 2% of “net direct written premium”), on all member insurers in the state on the basis of the proportionate share of the premiums written by member insurers in certain covered lines of business in which the impaired, insolvent or failed insurer was engaged. Accordingly, the total amount of assessments levied on us by the states in which we are licensed to write insurance may increase as we increase our premiums written. In addition, as a condition to the ability to conduct business in certain states (and within the jurisdiction of some local governments), insurance companies are subject to or required to participate in various premium or loss based insurance-related assessments, including mandatory (a/k/a “involuntary”) insurance pools, underwriting associations, workers' compensation second-injury funds, reinsurance funds and other state insurance facilities. Although we may be entitled to take premium tax credit (or offsets), recover policy surcharges or include assessments in future premium rate structures for payments we make under these facilities, the effect of these assessments and insurance-related arrangements, or changes in them, could reduce our profitability in any given period or limit our ability to grow our business.

We periodically review our corporate structure so that we can optimally deploy our capital. Changes in that structure require regulatory approval. Delays or failure in obtaining any of these approvals could limit the amount of insurance that we can write in the U.S.

If ACGL or any of our subsidiaries were to become subject to the laws of a new jurisdiction in which such entity is not presently admitted, ACGL or such subsidiary may not be in compliance with the laws of the new jurisdiction. In addition, we could, at any time and in any jurisdiction, face individual, group and class action lawsuits by our policyholders and others for alleged violations of applicable laws and regulations. Any such litigation or failure to comply with applicable laws could result in the imposition of significant restrictions on our ability to do business, and could also result in suspensions, injunctions, monetary damages, fines or other sanctions, any or all of which could adversely affect our financial condition and results of operations.

Our business is subject to risks related to litigation.

We may from time to time be subject to a variety of legal actions relating to our current and past business operations, including, but not limited to, disputes over coverage or claims adjudication, including claims alleging that we have acted in bad faith in the administration of claims by our policyholders, disputes with our agents, producers or network providers over compensation and termination of contracts and related claims and disputes relating to certain businesses acquired or disposed of by us.

Multi-party or class action claims may present additional exposure to substantial economic, non-economic or punitive damage awards. The loss of even one of these claims, if it resulted in a significant damage award or a judicial ruling that was otherwise detrimental, could create a precedent in the industry that could have a material adverse effect on our results of operations and financial condition. This risk of potential liability may make reasonable settlements of claims more difficult to obtain. We cannot determine with any certainty what new theories of recovery may evolve or what their impact may be on our business.

Mortgage insurers have been involved in litigation alleging violations of the RESPA and the FCRA. RESPA generally precludes Arch MI U.S. from providing services or products to mortgage lenders free of charge, charging fees for services that are lower than their reasonable or fair market value, and paying fees for services that others provide that are higher than their reasonable or fair market value, in exchange for the referral of settlement services. Violations of the referral fee limitations of RESPA may be enforced by the federal agencies, state attorneys general and state

insurance commissioners, as well as by private litigants in class actions. A number of lawsuits have challenged the actions of mortgage insurers other than Arch MI U.S., alleging that the insurers violated RESPA by entering into captive reinsurance arrangements or providing products or services, including contract underwriting, to mortgage lenders at improperly reduced prices in return for the referral of mortgage insurance. Other mortgage insurance companies have received Civil Investigative Demands from the CFPB as part of its investigation to determine whether mortgage lenders' and mortgage insurance providers' captive

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mortgage insurance arrangements violated federal law. We cannot predict whether additional actions of these types, or other actions, will be brought against us or other mortgage insurers. Any such proceedings could adversely affect our financial condition and results of operations.

If our Bermuda principal operating subsidiary becomes subject to insurance statutes and regulations in jurisdictions other than Bermuda or if there is a change in Bermuda law or regulations or the application of Bermuda law or regulations, there could be a significant and negative impact on our business.

Arch Re Bermuda, our Bermuda insurance and reinsurance subsidiary, is a registered Bermuda Class 4 general business insurer and as a Class C long-term business insurer and has been designated as the Designated Insurer for group supervision purposes. As such, it is subject to regulation and supervision in Bermuda. Bermuda insurance statutes and the regulations and policies of the BMA require Arch Re Bermuda to, among other things:

- maintain a minimum level of capital and surplus on both an individual and group basis;
- maintain an enhanced capital requirement (for both its general and long-term business), general and long-term business solvency margins on an individual and group basis and a minimum liquidity ratio (for its general business);
- restrict dividends and distributions;
- obtain prior approval regarding the ownership and transfer of shares;
- maintain a principal office and appoint and maintain a principal representative in Bermuda;
- file annual financial statements, an annual statutory financial return and an annual capital and solvency return; and
- allow for the performance of certain period examinations of Arch Re Bermuda and its financial condition and that of the group insurance companies.

These statutes and regulations may restrict our ability to write insurance and reinsurance policies, distribute funds and pursue our investment strategy. We do not presently intend for Arch Re Bermuda to be admitted to do business in the U.S., U.K. or any jurisdiction other than Bermuda, although Arch Re Bermuda has been approved as a “certified reinsurer” in certain U.S. states that allow reduced collateral for reinsurance ceded to such reinsurers. We cannot assure you that insurance regulators in the U.S., U.K. or elsewhere will not review the activities of Arch Re Bermuda or its subsidiaries or agents and assert that Arch Re Bermuda is subject to such jurisdiction’s licensing requirements, or impose restrictions on Arch Re Bermuda as a condition for its being approved as a “certified reinsurer.”

Generally, Bermuda insurance statutes and regulations applicable to Arch Re Bermuda are less restrictive than those that would be applicable if they were governed by the laws of any states in the U.S. If in the future we become subject to any insurance laws of the U.S. or any state thereof or of any other jurisdiction, we cannot assure you that we would be in compliance with such laws or that complying with such laws would not have a significant and negative effect on our business.

The process of obtaining licenses is very time consuming and costly, and Arch Re Bermuda may not be able to become licensed in jurisdictions other than Bermuda should we choose to do so. The modification of the conduct of our business that would result if we were required or chose to become licensed in certain jurisdictions could significantly and negatively affect our financial condition and results of operations. In addition, our inability to comply with insurance statutes and regulations could significantly and adversely affect our financial condition and results of operations by limiting our ability to conduct business as well as subject us to penalties and fines.

Because Arch Re Bermuda is a Bermuda company, it is subject to changes in Bermuda law and regulation that may have an adverse impact on our operations, including through the imposition of tax liability or increased regulatory supervision. In addition, Arch Re Bermuda will be exposed to any changes in the political environment in Bermuda. The Bermuda insurance and reinsurance regulatory framework recently has become subject to increased scrutiny in many jurisdictions, including the U.K. Although EIOPA published draft advice to the European Commission on December 19, 2014 supporting key aspects of Bermuda’s regulatory regime, with certain caveats, and is due to publish its final report on this issue, it is unclear exactly when the European Commission will take a final decision on whether or not it will recognize the solvency regime in Bermuda to be equivalent to that laid down in Solvency II. While we cannot predict the future impact on our operations of changes in the laws and regulation to which we are or may become subject, any such changes could have a material adverse effect on our business, financial condition and results of operations.



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ACGL is a holding company and is dependent on dividends and other payments from its operating subsidiaries, which are subject to dividend restrictions, to make payments, including the payment of debt service obligations and operating expenses we may incur and any payments of dividends, redemption amounts or liquidation amounts with respect to our preferred shares and common shares.

ACGL is a holding company whose assets primarily consist of the shares in our subsidiaries. Generally, ACGL depends on its available cash resources, liquid investments and dividends or other distributions from subsidiaries to make payments, including the payment of debt service obligations and operating expenses it may incur and any payments of dividends, redemption amounts or liquidation amounts with respect to our preferred shares and common shares, and to fund the share repurchase program. The ability of our regulated insurance and reinsurance subsidiaries to pay dividends or make distributions is dependent on their ability to meet applicable regulatory standards. In addition, the ability of our insurance and reinsurance subsidiaries to pay dividends to ACGL and to intermediate parent companies owned by ACGL could be constrained by our dependence on financial strength ratings from independent rating agencies. Our ratings from these agencies depend to a large extent on the capitalization levels of our insurance and reinsurance subsidiaries. We believe that ACGL has sufficient cash resources and available dividend capacity to service its indebtedness and other current outstanding obligations. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Financial Condition, Liquidity and Capital Resources—Liquidity and Capital Resources.”

If our Bermuda reinsurance subsidiary is unable to provide collateral to ceding companies, its ability to conduct business could be significantly and negatively affected.

Arch Re Bermuda is a registered Bermuda insurance company and is not licensed or admitted as an insurer in any jurisdiction in the U.S., although Arch Re Bermuda has been approved as a “certified reinsurer” in certain U.S. states that allow reduced collateral for reinsurance ceded to such reinsurers. Insurance regulations in the U.S. do not uniformly permit insurance companies to take credit for reinsurance obtained from unlicensed or non-admitted insurers on their statutory financial statements unless security is posted, and Arch Re Bermuda's contracts generally require it to post a letter of credit or provide other security, even in U.S. states where it has been approved for reduced collateral. Although, to date, Arch Re Bermuda has not experienced any difficulties in providing collateral when required, if we are unable to post security in the form of letters of credit or trust funds when required, the operations of Arch Re Bermuda could be significantly and negatively affected.

Foreign currency exchange rate fluctuation may adversely affect our financial results.

We write business on a worldwide basis, and our results of operations may be affected by fluctuations in the value of currencies other than the U.S. Dollar. The primary foreign currencies in which we operate are the Euro, the British Pound Sterling and the Canadian Dollar. Changes in foreign currency exchange rates can reduce our revenues, increase our liabilities and costs and cause fluctuations in the valuation of our investment portfolio. We may therefore suffer losses solely as a result of exchange rate fluctuations. In order to mitigate our exposure to foreign currency fluctuations in our net insurance liabilities, we have invested and expect to continue to invest in securities denominated in currencies other than the U.S. Dollar. In addition, we may replicate investment positions in foreign currencies using derivative financial instruments. Net foreign exchange gains, recorded in the statement of income, were \$83.7 million for 2014, compared to losses of \$12.3 million for 2013 and losses of \$29.0 million for 2012. Changes in the value of investments due to foreign currency rate movements are reflected as a direct increase or decrease to shareholders' equity and are not included in the statement of income. We have chosen not to hedge certain currency risks on capital contributed to certain subsidiaries, including to Arch Insurance Europe held in British Pounds Sterling, and may continue to choose not to hedge our currency risks. There can be no assurances that arrangements to match projected liabilities in foreign currencies with investments in the same currencies or derivative financial instruments will mitigate the negative impact of exchange rate fluctuations, and we may suffer losses solely as a result of exchange rate fluctuations.

Certain employees of our Bermuda operations are required to obtain work permits before engaging in a gainful occupation in Bermuda. Required work permits may not be granted or may not remain in effect.

Under Bermuda law, only persons who are Bermudians, spouses of Bermudians, holders of a permanent resident's certificate, holders of a working resident's certificate or persons who are exempt pursuant to the Incentives for Job

Makers Act 2011, as amended (“exempted persons”) may engage in gainful occupation in Bermuda without a work permit issued by the Bermuda Government. Our success may depend in part on the continued services of key employees in Bermuda. Save for the CEO and other ‘chief’ officer positions (where the advertising requirement is automatically waived) or where specifically waived, a work permit will only be granted or extended upon showing that, after proper public advertisement, no exempted person is available who meets the minimum requirements of the position. A work permit is issued with an expiry date of up to five years and no assurances can be given that any work permit will be issued or, if issued, extended upon the expiration of

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the relevant term. However, based on current policy, it is unlikely that initial or extension applications in respect of persons holding ‘chief’ officer positions will be denied. We have been designated by the Bermuda Government under the Incentives for Job Makers Act 2011, as amended (the “IJM Act”), as a company whose senior executives can be exempt from work permit control. This designation will remain in force provided we continue to meet the criteria for such designation under the IJM Act. All of our key officers in Bermuda are exempted persons. If our designation under the IJM Act is revoked, certain of our key officers will require work permits. We also have other key positions in Bermuda held by persons who hold work permits subject to extension. If work permits are not obtained or extended for our key employees, we could lose their services, which could materially affect our business.

The enforcement of civil liabilities against us may be difficult.

We are a Bermuda company and some of our officers and directors are residents of various jurisdictions outside the U.S. All or a substantial portion of our assets and the assets of those persons may be located outside the U.S. As a result, it may be difficult for you to effect service of process within the U.S. upon those persons or to enforce in U.S. courts judgments obtained against those persons.

We have appointed National Registered Agents, Inc., New York, New York, as our agent for service of process with respect to actions based on offers and sales of securities made in the U.S. We have been advised by our special Bermuda legal counsel, Conyers Dill & Pearman Limited, that the U.S. and Bermuda do not currently have a treaty providing for reciprocal recognition and enforcement of judgments of U.S. courts in civil and commercial matters and that a final judgment for the payment of money rendered by a court in the U.S. based on civil liability, whether or not predicated solely upon the U.S. federal securities laws, would, therefore, not be automatically enforceable in Bermuda. We also have been advised by Conyers Dill & Pearman Limited that a final and conclusive judgment obtained in a court in the U.S. under which a sum of money is payable as compensatory damages (i.e., not being a sum claimed by a revenue authority for taxes or other charges of a similar nature by a governmental authority, or in respect of a fine or penalty or multiple or punitive damages) may be the subject of an action on a debt in the Supreme Court of Bermuda under the common law doctrine of obligation. Such an action should be successful upon proof that the sum of money is due and payable, and without having to prove the facts supporting the underlying judgment, as long as:

- the court which gave the judgment had proper jurisdiction over the parties to such judgment;
- such court did not contravene the rules of natural justice of Bermuda;
- such judgment was not obtained by fraud;
- the enforcement of the judgment would not be contrary to the public policy of Bermuda;
- no new admissible evidence relevant to the action is submitted prior to the rendering of the judgment by the courts of Bermuda; and
- there is due compliance with the correct procedures under Bermuda law.

A Bermuda court may impose civil liability on us or our directors or officers in a suit brought in the Supreme Court of Bermuda against us or such persons with respect to a violation of U.S. federal securities laws, provided that the facts surrounding such violation would constitute or give rise to a cause of action under Bermuda law.

Our international business is subject to applicable laws and regulations relating to sanctions and foreign corrupt practices, the violation of which could adversely affect our operations.

We must comply with all applicable economic sanctions and anti-bribery laws and regulations of the U.S. and other foreign jurisdictions where we operate, including the U.K. and the European Community. U.S. laws and regulations applicable to us include the economic trade sanctions laws and regulations administered by the Treasury’s Office of Foreign Assets Control as well as certain laws administered by the U.S. Department of State. In addition, we are subject to the Foreign Corrupt Practices Act and other anti-bribery laws such as the U.K. Bribery Act that generally bar corrupt payments or unreasonable gifts to foreign governments or officials. Although we have policies and controls in place that are designed to ensure compliance with these laws and regulations, it is possible that an employee or intermediary could fail to comply with applicable laws and regulations. In such event, we could be exposed to civil penalties, criminal penalties and other sanctions, including fines or other punitive actions. In addition, such violations could damage our business and/or our reputation. Such criminal or civil sanctions, penalties, other sanctions, and damage to our business and/or reputation could have a material adverse effect on our financial condition and results of operations.





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### Risk Relating to Our Preferred Shares

General market conditions and unpredictable factors could adversely affect market prices for our outstanding preferred shares.

There can be no assurance about the market prices for any series of our preferred shares. Several factors, many of which are beyond our control, will influence the fair value of such series of preferred shares. Factors that might influence the fair value of any series of our preferred shares include, but are not limited to:

- whether dividends have been declared and are likely to be declared on any series of our preferred shares from time to time;
- our creditworthiness, financial condition, performance and prospects;
- whether the ratings on any series of our preferred shares provided by any ratings agency have changed;
- the market for similar securities; and
- economic, financial, geopolitical, regulatory or judicial events that affect us and/or the insurance or financial markets generally.

Dividends on our preferred shares are non-cumulative.

Dividends on our preferred shares are non-cumulative and payable only out of lawfully available funds of ACGL under Bermuda law. Consequently, if ACGL's board of directors (or a duly authorized committee of the board) does not authorize and declare a dividend for any dividend period with respect to any series of our preferred shares, holders of such preferred shares would not be entitled to receive any such dividend, and such unpaid dividend will not accrue and will never be payable. ACGL will have no obligation to pay dividends for a dividend period on or after the dividend payment date for such period if its board of directors (or a duly authorized committee of the board) has not declared such dividend before the related dividend payment date; if dividends on any series of our preferred shares are authorized and declared with respect to any subsequent dividend period, ACGL will be free to pay dividends on any other series of preferred shares and/or our common shares. In the past, we have not paid dividends on our common shares.

Our preferred shares are equity and are subordinate to our existing and future indebtedness.

Our preferred shares are equity interests and do not constitute indebtedness. As such, our preferred shares will rank junior to all of our indebtedness and other non-equity claims with respect to assets available to satisfy our claims, including in our liquidation. As of December 31, 2014, our total consolidated long-term debt was \$900.0 million. We may incur additional debt in the future. Our existing and future indebtedness may restrict payments of dividends on our preferred shares. Additionally, unlike indebtedness, where principal and interest would customarily be payable on specified due dates, in the case of preferred shares like our preferred shares, (1) dividends are payable only if declared by the board of directors of ACGL (or a duly authorized committee of the board) and (2) as described under "Risks Relating to Our Company—ACGL is a holding company and is dependent on dividends and other payments from its operating subsidiaries, which are subject to dividend restrictions, to make payments, including the payment of debt service obligations and operating expenses we may incur and any payments of dividends, redemption amounts or liquidation amounts with respect to our preferred shares and common shares," we are subject to certain regulatory and other constraints affecting our ability to pay dividends and make other payments.

The voting rights of holders of our preferred shares are limited.

Holders of our preferred shares have no voting rights with respect to matters that generally require the approval of voting shareholders. The limited voting rights of holders of our preferred shares include the right to vote as a class on certain fundamental matters that affect the preference or special rights of our preferred shares as set forth in the certificate of designations relating to each series of preferred shares. In addition, if dividends on any series of our preferred shares have not been declared or paid for the equivalent of six dividend payments, whether or not for consecutive dividend periods, holders of the outstanding preferred shares of any series will be entitled to vote for the election of two additional directors to our board of directors subject to the terms and to the limited extent as set forth in the certificate of designations relating to such series of preferred shares.



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There is no limitation on our issuance of securities that rank equally with or senior to our preferred shares. We may issue additional securities that rank equally with or senior to our preferred shares without limitation. The issuance of securities ranking equally with or senior to our preferred shares may reduce the amount available for dividends and the amount recoverable by holders of such series in the event of a liquidation, dissolution or winding-up of ACGL.

**Risks Relating to Taxation**

We and our non-U.S. subsidiaries may become subject to U.S. federal income taxation.

ACGL and its non-U.S. subsidiaries intend to operate their business in a manner that will not cause them to be treated as engaged in a trade or business in the U.S. and, thus, will not be required to pay U.S. federal income taxes (other than U.S. excise taxes on insurance and reinsurance premium and withholding taxes on certain U.S. source investment income) on their income. However, because there is uncertainty as to the activities which constitute being engaged in a trade or business in the U.S., there can be no assurances that the IRS will not contend successfully that ACGL or its non-U.S. subsidiaries are engaged in a trade or business in the U.S. If ACGL or any of its non-U.S. subsidiaries were subject to U.S. income tax, our shareholders' equity and earnings could be adversely affected.

Congress has been considering legislation intended to eliminate certain perceived tax advantages of Bermuda and other non-U.S. insurance companies and U.S. insurance companies having Bermuda and other non-U.S. affiliates, including perceived tax benefits resulting principally from reinsurance between or among U.S. insurance companies and their Bermuda affiliates. Some U.S. insurance companies have also been lobbying Congress recently to pass such legislation. In this regard, the American Jobs Creation Act of 2004 (the "Jobs Act") permits the IRS to re-allocate, re-characterize or adjust items of income, deduction or certain other items related to a reinsurance agreement between related parties to reflect the proper source, character and amount for each item (in contrast to prior law, which only covered source and character). The Jobs Act also eliminated the tax benefits available to a U.S. company that, after March 4, 2003, changed its legal domicile to a non-U.S. jurisdiction, a transaction commonly known as an inversion. We changed our legal domicile from the U.S. to Bermuda, but were not affected by the anti-inversion rule because our change in domicile occurred in November 2000. The American Infrastructure Investment and Improvement Act of 2008 as passed by the Senate Finance Committee would have made the Jobs Act anti-inversion rule applicable retroactively to inversions that occurred after March 20, 2002. Although this modification would not affect ACGL, no assurance can be given that if reintroduced in the current Congress the final bill will not make the Jobs Act anti-inversion rule applicable retroactively to inversions that occurred on an earlier date, in which case ACGL could be adversely affected. A legislative proposal reintroduced in 2015 would treat certain foreign corporations as U.S. corporations if such corporation is primarily managed and controlled within the U.S. While we believe ACGL is not primarily managed and controlled within the U.S., there is no assurance that the proposal would not apply to ACGL. Another legislative proposal would treat a foreign corporation as a U.S. corporation if it is determined that the foreign corporation was formed or organized principally for the purpose of avoiding being treated as a U.S. corporation. It is uncertain whether this proposal would apply to ACGL, but it would adversely affect us if enacted and found to apply. Another legislative proposal has been introduced that would treat certain "tax haven CFCs" as U.S. corporations for federal income tax purposes. The term "tax haven CFC" would include a Bermuda corporation that is a controlled foreign corporation, but would exclude corporations that engage in the active conduct of a trade or business in Bermuda. It is not clear how this bill would apply to ACGL, which conducts its insurance and reinsurance businesses through its subsidiaries. Further, it is not clear whether this bill was intended to apply to a publicly traded company such as ACGL. There is no assurance that this legislative proposal, if enacted, would not apply to ACGL or any of its non-U.S. subsidiaries. In addition, Congress has conducted hearings relating to the tax treatment of reinsurance between affiliates and is reported to be considering legislation that would adversely affect reinsurance between U.S. and non-U.S. affiliates. One such proposal would increase the excise tax rate on reinsurance premiums paid to affiliated non-U.S. reinsurers. A legislative proposal in the House of Representatives as well as a prior Senate Finance Committee staff discussion draft and other prior proposals would limit deductions for premiums ceded to affiliated non-U.S. reinsurers above certain levels. The Administration's Fiscal Year 2016 Revenue Proposals contain a similar but more restrictive provision that would deny deductions for all premiums ceded to affiliated non-U.S. reinsurers, offset by an exclusion for any ceding commissions received or reinsurance recovered from such affiliates. Two

legislative proposals (i.e., H.R. 3157 and S. 1963) introduced during the 112th Congress appeared to adopt the provision contained in the Administration's Fiscal Year 2016 Revenue Proposals. Enactment of such legislation or proposal as well as other changes in U.S. tax laws, regulations and interpretations thereof to address these issues could adversely affect us.

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In November 2013, the Senate Committee on Finance published two alternative Chairman's Staff Discussion Drafts on reforming international business taxation. The drafts contain legislative proposals that, if enacted, could adversely affect us. The drafts include a provision to limit deductions for premium ceded to affiliated non-U.S. reinsurers, which is similar to the provision in the Administration's Fiscal Year 2016 Revenue Proposals as described above. The drafts would repeal the portfolio interest exemption on U.S. corporate debt, which could significantly increase tax liabilities on our investment portfolio or cause us to increase investment in non-U.S. corporate debt. In February 2014, the House Ways and Means Committee Chairman Dave Camp published a tax reform proposal titled "Tax Reform Act of 2014," which was subsequently introduced to the Congress in December 2014. The bill contains several provisions that, if enacted, could adversely affect us. One provision is similar to the reinsurance premium disallowance provision contained in the Administration's Fiscal Year 2016 Revenue Proposals as described above. Other provisions in the bill would modify certain tax rules applicable to U.S. and non-U.S. insurance companies, which could adversely affect our U.S. federal income tax liabilities.

Our non-U.K. companies may be subject to U.K. tax that may have a material adverse effect on our results of operations.

We intend to operate in such a manner so that none of our companies, other than our U.K. subsidiaries and branch operations (the "U.K. Group"), should be resident in the U.K. for tax purposes or carry on a trade, whether or not through a permanent establishment, in the U.K. Accordingly, we do not expect that of our other subsidiaries, other than the U.K. Group, should be subject to U.K. tax. Case law has held that whether or not a trade is being carried on in the U.K. is a matter of fact and emphasis is placed on where the operations take place from which the profits in substance arise. HM Revenue and Customs might contend successfully that one or more of our subsidiaries, in addition to the U.K. Group, is carrying on a trade in the U.K. For U.K. tax purposes, a non-U.K. tax resident company will be subject to U.K. corporation tax only if it carries on a trade through a permanent establishment in the U.K. However, that subsidiary may still be subject to U.K. income tax if it carries on a trade in the U.K., without a permanent establishment, unless it is entitled to the protection afforded by a double tax treaty between the U.K. and the jurisdiction in which that company is resident. If any of our subsidiaries is treated as resident, or carrying on a trade, in the U.K., whether or not through a permanent establishment, and, therefore, subject to U.K. tax, our results of operations could be materially adversely affected.

We may become subject to taxes in Bermuda after March 31, 2035, which may have a material adverse effect on our results of operations.

Under current Bermuda law, we are not subject to tax on income, profits, withholding, capital gains or capital transfers. Furthermore, we have obtained from the Minister of Finance of Bermuda under the Exempted Undertakings Tax Protection Act, 1966, an assurance that, in the event that Bermuda enacts legislation imposing tax computed on profits, income, any capital asset, gain or appreciation, or any tax in the nature of estate duty or inheritance tax, then the imposition of the tax will not be applicable to us or our operations until March 31, 2035. We could be subject to taxes in Bermuda after that date. This assurance does not, however, prevent the imposition of taxes on any person ordinarily resident in Bermuda or any company in respect of its ownership of real property or leasehold interests in Bermuda.

The impact of Bermuda's letter of commitment to the OECD to eliminate harmful tax practices is uncertain and could adversely affect our tax status in Bermuda.

The Organization for Economic Cooperation and Development ("OECD") has published reports and launched a global initiative among member and non-member countries on measures to limit harmful tax competition. These measures are largely directed at counteracting the effects of tax havens and preferential tax regimes in countries around the world. Bermuda was not listed in the most recent report as an uncooperative tax haven jurisdiction because it had previously committed to eliminate harmful tax practices, to embrace international tax standards for transparency, to exchange information and to eliminate an environment that attracts business with no substantial domestic activity. We are not able predict what changes will arise from the commitment or whether such changes will subject us to additional taxes.

We may become subject to taxation on profits generated in Bermuda as a result of the OECD's plan on "Base erosion and profit shifting."

In 2013, the OECD published an “Action Plan on Base Erosion and Profit Shifting.” The plan proposes the development of rules to prevent Base Erosion and Profit Shifting which may drive fundamental changes in the perception of tax structuring and transfer pricing by tax authorities. The action plan includes adopting transfer pricing rules or special measures to ensure that returns will not accrue to an entity solely because it has contractually assumed risks or has provided

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capital. The action plan will likely put a much greater emphasis on the location of individuals and their contributions towards profit generation. This may result in a significant change to the existing transfer pricing rules and would potentially have a significant impact on the allocation of taxable profits throughout our subsidiaries. As a consequence, profits currently generated in Bermuda may become subject to taxation outside Bermuda.

## ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

## ITEM 2. PROPERTIES

We lease a total of approximately 9,000 square feet in Bermuda for the operations of ACGL and our internal investment management group. Our reinsurance group leases approximately 85,000 square feet for offices in the U.S., Bermuda, Europe and Canada. The principal U.S. office of our insurance group support operations (excluding underwriting units) is in Jersey City, New Jersey where we lease approximately 107,000 square feet. Such lease expires in 2024. We lease approximately 71,000 square feet in New York City for the headquarters of the U.S. insurance group's underwriting product lines and Northeast regional underwriting operations. Our insurance group also leases a total of approximately 255,000 square feet for its other primary U.S. offices and offices in Canada, Bermuda, Europe, South Africa and Australia. Our mortgage group leases approximately 131,000 square feet for offices in the U.S., primarily in Walnut Creek, California.

Our rental expense, net of income from subleases, was approximately \$23.1 million, \$18.7 million and \$17.1 million for 2014, 2013 and 2012, respectively. Our future minimum rental charges for the remaining terms of our existing leases, exclusive of escalation clauses and maintenance costs and net of rental income, will be approximately \$154.7 million. We believe that the above described office space is adequate for our needs. However, as we continue to develop our business, we may open additional office locations during 2015.

## ITEM 3. LEGAL PROCEEDINGS

We, in common with the insurance industry in general, are subject to litigation and arbitration in the normal course of our business. As of December 31, 2014, we were not a party to any litigation or arbitration which is expected by management to have a material adverse effect on our results of operations and financial condition and liquidity.

## ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

## PART II

## ITEM MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND

## 5. ISSUER PURCHASES OF EQUITY SECURITIES

## MARKET INFORMATION

Our common shares are traded on the NASDAQ Stock Market under the symbol "ACGL." The following table sets forth the high and low sales prices for our common shares for the two most recent fiscal years by quarter:

	2014		2013	
	High	Low	High	Low
1st quarter	\$59.55	\$52.23	\$52.59	\$44.00
2nd quarter	\$58.52	\$55.61	\$54.64	\$49.46
3rd quarter	\$58.24	\$52.98	\$55.87	\$51.00
4th quarter	\$60.10	\$52.51	\$59.78	\$53.85

On February 20, 2015, the high and low sales prices and the closing price for our common shares as reported on the NASDAQ Stock Market were \$60.17, \$59.44 and \$60.04, respectively.



Table of Contents**HOLDERS**

As of February 20, 2015, and based on information provided to us by our transfer agent and proxy solicitor, there were 1,052 holders of record of our common shares and approximately 23,100 beneficial holders of our common shares.

**DIVIDENDS**

Any determination to pay dividends on ACGL's Series C non-cumulative preferred shares ("Series C preferred shares") or common shares will be at the discretion of ACGL's board of directors (or a duly authorized committee of the board of directors) and will be dependent upon its results of operations, financial condition and other factors deemed relevant by ACGL's board of directors. As a holding company, ACGL will depend on future dividends and other permitted payments from its subsidiaries to pay dividends to its shareholders. ACGL's subsidiaries' ability to pay dividends, as well as its ability to pay dividends, is subject to regulatory, contractual, rating agency and other constraints. So long as any Series C preferred shares remain outstanding for any dividend period, unless the full dividends for the latest completed dividend period on all outstanding Series C preferred shares and parity shares have been declared and paid (or declared and a sum sufficient for the payment thereof has been set aside), (a) no dividend may be paid or declared on ACGL's common shares or any of its other securities ranking junior to the Series C preferred shares (other than a dividend payable solely in common shares or in such other junior securities) and (b) no common shares or other junior shares may be purchased, redeemed or otherwise acquired for consideration by ACGL, directly or indirectly (other than (i) as a result of a reclassification of junior shares for or into other junior shares, or the exchange or conversion of one junior share for or into another junior share, (ii) through the use of the proceeds of a substantially contemporaneous sale of junior shares and (iii) as permitted by the bye-laws of ACGL in effect on the date of issuance of the Series C preferred shares).

**ISSUER PURCHASES OF EQUITY SECURITIES**

The following table summarizes our purchases of our common shares for the 2014 fourth quarter:

Period	Issuer Purchases of Equity Securities		Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares that May Yet be Purchased Under the Plan or Programs (2)
	Total Number of Shares Purchased (1)	Average Price Paid per Share		
10/1/2014-10/31/2014	1,633,296	\$54.91	1,626,857	\$370,867
11/1/2014-11/30/2014	187,942	\$56.90	175,875	\$990,023
12/1/2014-12/31/2014	1,803,095	\$57.47	1,790,382	\$887,140
Total	3,624,333	\$56.29	3,593,114	\$887,140

(1) Includes repurchases by ACGL of shares, from time to time, from employees in order to facilitate the payment of withholding taxes on restricted shares granted and the exercise of stock appreciation rights. We purchased these shares at their fair market value, as determined by reference to the closing price of our common shares on the day the restricted shares vested or the stock appreciation rights were exercised.

(2) Remaining amount available at December 31, 2014 under ACGL's share repurchase authorization, under which repurchases may be effected from time to time in open market or privately negotiated transactions through December 31, 2016.

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## PERFORMANCE GRAPH

The following graph compares the cumulative total shareholder return on our common shares for each of the last five years through December 31, 2014 to the cumulative total return, assuming reinvestment of dividends, of (1) S&P 500 Composite Stock Index (“S&P 500 Index”) and (2) the S&P 500 Property & Casualty Insurance Index. The share price performance presented below is not necessarily indicative of future results.

## CUMULATIVE TOTAL SHAREHOLDER RETURN (1)(2)(3)

	Company Name/Index	Base					
		Period					
		12/31/09	12/31/10	12/31/11	12/31/12	12/31/13	12/31/14
l	Arch Capital Group Ltd.	\$100.00	\$123.06	\$156.10	\$184.57	\$250.27	\$247.80
n	S&P 500 Index	\$100.00	\$115.06	\$117.49	\$136.30	\$180.44	\$205.14
p	S&P 500 Property & Casualty Insurance Index	\$100.00	\$108.93	\$108.66	\$130.52	\$180.49	\$208.91

(1) Stock price appreciation plus dividends.

(2) The above graph assumes that the value of the investment was \$100 on December 31, 2009.

(3) This graph is not “soliciting material,” is not deemed filed with the SEC and is not to be incorporated by reference in any filing by us under the Securities Act of 1933 or the Securities and Exchange Act of 1934, whether made before or after the date hereof and irrespective of any general incorporation language in any such filing.

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## ITEM 6. SELECTED FINANCIAL DATA

The following tables set forth summary historical consolidated financial and operating data (including the results of the 'other' segment) and should be read in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our financial statements and the related notes.

(U.S. dollars in thousands except share data)	Year Ended December 31,					
	2014	2013	2012	2011	2010	
Statement of Income Data:						
Revenues:						
Net premiums written	\$3,891,938	\$3,351,367	\$3,052,235	\$2,673,326	\$2,511,040	
Net premiums earned	3,593,748	3,145,952	2,935,140	2,631,815	2,552,483	
Net investment income	302,585	267,219	294,895	338,198	364,878	
Equity in net income (loss) of investment funds accounted for using the equity method	19,883	35,701	73,510	(9,605)	61,400	
Net realized gains	102,917	74,018	194,228	110,646	252,751	
Total revenues	3,988,873	3,526,157	3,482,381	3,063,307	3,244,067	
Income before income taxes	844,247	742,505	589,387	426,370	850,401	
Net income	\$821,260	\$709,731	\$593,397	\$436,163	\$842,672	
Net income attributable to Arch	834,355	709,731	593,397	436,163	842,672	
Preferred dividends	(21,938)	(21,938)	(25,079)	(25,844)	(25,844)	
Loss on repurchase of preferred shares	—	—	(10,612)	—	—	
Net income available to Arch common shareholders	\$812,417	\$687,793	\$557,706	\$410,319	\$816,828	
Diluted net income per share	\$6.02	\$5.07	\$4.03	\$2.97	\$5.18	
Cash dividends per share	—	—	—	—	—	
After-tax operating income available to Arch common shareholders (1)	\$617,312	\$595,715	\$350,640	\$303,382	\$491,158	
After-tax operating income available to Arch common shareholders per share — diluted (1)	\$4.58	\$4.39	\$2.54	\$2.19	\$3.12	
After-tax operating return on average common equity (2)	11.1	% 11.7	% 7.7	% 7.2	% 12.1	%
Weighted average common shares and common share equivalents outstanding — diluted	134,922,322	135,777,183	138,258,847	138,289,702	157,565,157	

- (1) After-tax operating income available to Arch common shareholders is defined as net income available to Arch common shareholders, excluding net realized gains or losses, net impairment losses included in earnings, equity in net income or loss of investment funds accounted for using the equity method, net foreign exchange gains or losses and loss on repurchase of preferred shares, net of income taxes. The presentation of after-tax operating income available to Arch common shareholders is a "non-GAAP financial measure" as defined in Regulation G. See "Management's Discussion and Analysis—General—Comment on Non-GAAP Financial Measures" for further details.
- (2) Equals after-tax operating income available to Arch common shareholders divided by the average of beginning and ending common shareholders' equity for each period presented.



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(U.S. dollars in thousands except share data)	December 31,				
	2014	2013	2012	2011	2010
Balance Sheet Data:					
Total investable assets (1)	\$ 15,773,209	\$ 14,049,525	\$ 13,045,134	\$ 12,316,205	\$ 11,842,513
Premiums receivable	948,695	753,924	688,873	501,563	503,434
Reinsurance recoverables on unpaid and paid losses and loss adjustment expenses	1,812,845	1,804,330	1,870,037	1,851,584	1,763,985
Total assets	22,009,543	19,566,094	17,816,762	17,105,357	16,243,011
Reserves for losses and loss adjustment expenses:					
Before unpaid losses and loss adjustment expenses recoverable	9,036,448	8,824,696	8,933,292	8,456,210	8,098,454
Net of unpaid losses and loss adjustment expenses recoverable	7,258,145	7,076,446	7,104,222	6,638,163	6,395,253
Unearned premiums:					
Before prepaid reinsurance premiums	2,231,578	1,896,365	1,647,978	1,411,872	1,370,075
Net of prepaid reinsurance premiums	1,854,500	1,568,022	1,349,494	1,146,176	1,106,627
Senior notes	800,000	800,000	300,000	300,000	300,000
Revolving credit agreement borrowings	100,000	100,000	100,000	100,000	100,000
Total liabilities	14,890,897	13,918,598	12,647,884	12,513,283	11,766,225
Common shareholders' equity	6,574,134	5,322,496	4,843,878	4,267,074	4,151,786
Preferred shareholders' equity	325,000	325,000	325,000	325,000	325,000
Total shareholders' equity	\$ 6,899,134	\$ 5,647,496	\$ 5,168,878	\$ 4,592,074	\$ 4,476,786
Book value per common share (2)	\$ 45.58	\$ 39.82	\$ 36.19	\$ 31.76	\$ 29.73
Common shares outstanding, net of treasury shares (3)	127,367,934	133,674,884	133,842,613	134,358,345	139,632,225

In our securities lending transactions, we receive collateral in excess of the fair value of the fixed maturities and short-term investments pledged under securities lending agreements. For purposes of this table, we have excluded (1) collateral received and reinvested and included "fixed maturities and short-term investments pledged under securities lending agreements, at fair value."

(2) Excludes the effects of stock options and restricted stock units.

(3) Reflects the impact of our share repurchase program.

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ITEM MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF  
7. OPERATIONS

The following discussion and analysis contains forward-looking statements which involve inherent risks and uncertainties. All statements other than statements of historical fact are forward-looking statements. These statements are based on our current assessment of risks and uncertainties. Actual results may differ materially from those expressed or implied in these statements and, therefore, undue reliance should not be placed on them. Important factors that could cause actual events or results to differ materially from those indicated in such statements are discussed in this report, including the sections entitled "Cautionary Note Regarding Forward-Looking Statements," and "Risk Factors."

This discussion and analysis should be read in conjunction with our audited consolidated financial statements and notes thereto presented under Item 8. Tabular amounts are in U.S. Dollars in thousands, except share amounts, unless otherwise noted.

GENERAL

Overview

Arch Capital Group Ltd. ("ACGL" and, together with its subsidiaries, "we" or "us") is a Bermuda public limited liability company with approximately \$7.03 billion in capital at December 31, 2014 and, through operations in Bermuda, the United States, Europe and Canada, writes insurance and reinsurance on a worldwide basis. While we are positioned to provide a full range of property and casualty insurance and reinsurance lines, we focus on writing specialty lines of insurance and reinsurance. It is our belief that our underwriting platform, our experienced management team and our strong capital base that is unencumbered by significant pre-2002 risks have enabled us to establish a strong presence in the insurance and reinsurance markets.

The worldwide insurance and reinsurance industry is highly competitive and has traditionally been subject to an underwriting cycle in which a hard market (high premium rates, restrictive underwriting standards, as well as terms and conditions, and underwriting gains) is eventually followed by a soft market (low premium rates, relaxed underwriting standards, as well as broader terms and conditions, and underwriting losses). Insurance market conditions may affect, among other things, the demand for our products, our ability to increase premium rates, the terms and conditions of the insurance policies we write, changes in the products offered by us or changes in our business strategy.

The financial results of the insurance and reinsurance industry are influenced by factors such as the frequency and/or severity of claims and losses, including natural disasters or other catastrophic events, variations in interest rates and financial markets, changes in the legal, regulatory and judicial environments, inflationary pressures and general economic conditions. These factors influence, among other things, the demand for insurance or reinsurance, the supply of which is generally related to the total capital of competitors in the market.

Current Outlook

The broad market environment continues to be competitive in our reinsurance business reflecting a continuation of softening in pricing and broadening pressures on terms and conditions. In the primary markets in which our insurance business participates our insurance business continued to obtain rate increases in most lines of business, albeit at lower levels during the second half of 2014 than in the first half. With the continued low interest rate environment, additional increases are needed in many lines in order for us to achieve our return requirements. Our underwriting teams continue to execute a disciplined strategy by emphasizing small and medium-sized accounts over large accounts.

The mortgage segment was formed in the 2014 first quarter and consists of our mortgage insurance and reinsurance business. On January 30, 2014, we completed the acquisition of CMG Mortgage Insurance Company (subsequently renamed Arch Mortgage Insurance Company, "Arch MI U.S."), which prior to the acquisition had been approved as an eligible mortgage insurer by Federal National Mortgage Association and Federal Home Loan Mortgage Corporation (each a government sponsored enterprise, or "GSE") only for credit union customers. As part of the transaction, Arch MI U.S. was approved as an eligible mortgage insurer by the GSEs. The completion of the transaction enabled us to enter the U.S. mortgage insurance marketplace and to serve banks and other lenders nationwide, including existing credit union customers. The mortgage segment also provides reinsurance on both a proportional and non-proportional

basis on a global basis, direct mortgage insurance in Europe and various risk-sharing products to government agencies and mortgage lenders. As of December 31, 2014, Arch MI U.S. reviewed and approved 481 master policy applications from banks and more than

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150 of these banks have submitted loans for approval, and approved master policy applications from 19 of the top 25 mortgage originators for conforming mortgages sold to the GSEs with mortgage insurance.

Our objective is to achieve an average operating return on average equity of 15% or greater over the insurance cycle, which we believe to be an attractive return to our common shareholders given the risks we assume. We continue to look for opportunities to find acceptable books of business to underwrite without sacrificing underwriting discipline. We expect that catastrophe-exposed business will continue to represent a significant proportion of our overall book, which could increase the volatility of our operating results.

Changing economic conditions could have a material impact on the frequency and severity of claims and, therefore, could negatively impact our underwriting returns. In addition, volatility in the financial markets could continue to significantly affect our investment returns, reported results and shareholders' equity. We consider the potential impact of economic trends in the estimation process for establishing unpaid losses and loss adjustment expenses and in determining our investment strategies. In addition, weakness of the U.S., European countries and other key economies, projected budget deficits for the U.S., European countries and other governments and the consequences associated with potential downgrades of securities of the U.S., European countries and other governments by credit rating agencies is inherently unpredictable and could have a material adverse effect on financial markets and economic conditions in the U.S. and throughout the world. In turn, this could have a material adverse effect on our business, financial condition and results of operations and, in particular, this could have a material adverse effect on the value and liquidity of securities in our investment portfolio.

#### Natural Catastrophe Risk

We monitor our natural catastrophe risk globally for all perils and regions, in each case, where we believe there is significant exposure. Our models employ both proprietary and vendor-based systems and include cross-line correlations for property, marine, offshore energy, aviation, workers compensation and personal accident. Currently, we seek to limit our 1-in-250 year return period net probable maximum pre-tax loss from a severe catastrophic event in any geographic zone to approximately 25% of total shareholders' equity. We reserve the right to change this threshold at any time. Based on in-force exposure estimated as of January 1, 2015, our modeled peak zone catastrophe exposure is a windstorm affecting the Northeastern U.S., with a net probable maximum pre-tax loss of \$544 million, followed by windstorms affecting the Gulf of Mexico and Florida Tri-County with net probable maximum pre-tax losses of \$527 million and \$419 million, respectively. Our exposures to other perils, such as U.S. earthquake and international events, are less than the exposures arising from U.S. windstorms and hurricanes. As of January 1, 2015, our modeled peak zone earthquake exposure (Los Angeles area earthquake) represented approximately 58% of our peak zone catastrophe exposure, and our modeled peak zone international exposure (Japan earthquake) is substantially less than both our peak zone windstorm and earthquake exposures. Net probable maximum pre-tax loss estimates are net of expected reinsurance recoveries, before income tax and before excess reinsurance reinstatement premiums. Loss estimates are reflective of the zone indicated and not the entire portfolio. Since hurricanes and windstorms can affect more than one zone and make multiple landfalls, our loss estimates include clash estimates from other zones. The loss estimates shown above do not represent our maximum exposures and it is highly likely that our actual incurred losses would vary materially from the modeled estimates. There can be no assurances that we will not suffer a net loss greater than 25% of our total shareholders' equity from one or more catastrophic events due to several factors, including the inherent uncertainties in estimating the frequency and severity of such events and the margin of error in making such determinations resulting from potential inaccuracies and inadequacies in the data provided by clients and brokers, the modeling techniques and the application of such techniques or as a result of a decision to change the percentage of shareholders' equity exposed to a single catastrophic event. In addition, actual losses may increase if our reinsurers fail to meet their obligations to us or the reinsurance protections purchased by us are exhausted or are otherwise unavailable. See "Risk Factors—Risk Relating to Our Industry" and "Management's Discussion and Analysis of Financial Condition and Results of Operations—Natural and Man-Made Catastrophic Events."



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### Financial Measures

Management uses the following three key financial indicators in evaluating our performance and measuring the overall growth in value generated for ACGL's common shareholders:

#### Book Value per Common Share

Book value per common share represents total common shareholders' equity divided by the number of common shares outstanding. Management uses growth in book value per common share as a key measure of the value generated for our common shareholders each period and believes that book value per common share is the key driver of ACGL's common share price over time. Book value per common share is impacted by, among other factors, our underwriting results, investment returns and share repurchase activity, which has an accretive or dilutive impact on book value per common share depending on the purchase price.

Book value per common share was \$45.58 at December 31, 2014, a 14.5% increase from \$39.82 at December 31, 2013. The growth in 2014 was primarily generated through underwriting and investment returns.

#### After-Tax Operating Return on Average Common Equity

After-tax operating return on average common equity ("Operating ROAE") represents after-tax operating income available to Arch common shareholders divided by the average of beginning and ending common shareholders' equity available to Arch during the period. After-tax operating income available to Arch common shareholders, a "non-GAAP measure" as defined in the SEC rules, represents net income available to Arch common shareholders, excluding net realized gains or losses, net impairment losses recognized in earnings, equity in net income or loss of investment funds accounted for using the equity method, net foreign exchange gains or losses and loss on repurchase of preferred shares, net of income taxes. Management uses Operating ROAE as a key measure of the return generated to Arch common shareholders and has set an objective to achieve an average Operating ROAE of 15% or greater over the insurance cycle, which it believes to be an attractive return to common shareholders given the risks we assume. See "Comment on Non-GAAP Financial Measures."

Our Operating ROAE was 11.1% for 2014, compared to 11.7% for 2013 and 7.7% for 2012. The Operating ROAE for 2014 reflects a similar level of after-tax operating income, with a higher average common shareholders' equity in the 2014 period resulting in a lower Operating ROAE. Such amounts reflected the impact of low interest yields on the investment portfolio while the 2012 Operating ROAE reflected a higher level of losses from catastrophic events, including Superstorm Sandy.

#### Total Return on Investments

Total return on investments includes net investment income, equity in net income or loss of investment funds accounted for using the equity method, net realized gains and losses and the change in unrealized gains and losses generated by the investment portfolio managed by Arch. Total return is calculated on a pre-tax basis and before investment expenses and includes the effect of financial market conditions along with foreign currency fluctuations. Management uses total return on investments as a key measure of the return generated to Arch common shareholders on the capital held in the business, and compares the return generated by the investment portfolio managed by Arch against a benchmark return index.

The benchmark return index is a customized combination of indices intended to approximate a target portfolio by asset mix and average credit quality while also matching the approximate estimated duration and currency mix of our insurance and reinsurance liabilities. Although the estimated duration and average credit quality of this index will move as the duration and rating of its constituent securities change, generally we do not adjust the composition of the benchmark return index. The benchmark return index should not be interpreted as expressing a preference for or aversion to any particular sector or sector weight. The index is intended solely to provide, unlike many master indices that change based on the size of their constituent indices, a relatively stable basket of investable indices.

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At December 31, 2014, the benchmark return index had an average Moody's credit quality of "Aa2", an estimated duration of 3.44 years and included weightings to the following indices:

	Weighting	
The Bank of America Merrill Lynch 1-10 Year AA U.S. Corporate & Yankees Index	21.250	%
The Bank of America Merrill Lynch 1-5 Year U.S. Treasury Index	13.000	
The Bank of America Merrill Lynch U.S. Mortgage Backed Securities Index	11.875	
Barclays Capital CMBS, AAA Index	10.000	
The Bank of America Merrill Lynch 1-10 Year U.S. Municipal Securities Index	7.125	
The Bank of America Merrill Lynch 1-10 Year EMU Governments Index	5.500	
The Bank of America Merrill Lynch U.S. High Yield Constrained Index	5.500	
The Bank of America Merrill Lynch U.S. Bullet Agency Securities 1-10 Years Index	5.000	
MSCI All Country World Gross Total Return Index	5.000	
The Bank of America Merrill Lynch 0-3 Month U.S. Treasury Bill Index	5.000	
The Bank of America Merrill Lynch 5-10 Year U.S. Treasury Index	3.250	
The Bank of America Merrill Lynch 1-5 Year U.K. Gilt Index	3.000	
The Bank of America Merrill Lynch 1-10 Year Australian Governments Index	2.500	
The Bank of America Merrill Lynch 1-5 Year CAD Governments Index	2.000	
Total	100.000	%

The following table summarizes the pre-tax total return (before investment expenses) of the investment portfolio managed by Arch compared to the benchmark return against which we measured our portfolio during the periods:

	Arch Portfolio (1)	Benchmark Return	
Pre-tax total return (before investment expenses):			
Year Ended December 31, 2014	3.21	% 2.58	%
Year Ended December 31, 2013	1.28	% 0.85	%
Year Ended December 31, 2012	5.88	% 4.90	%

(1) Our investment expenses were approximately 0.28%, 0.26% and 0.22%, respectively, of average invested assets in 2014, 2013 and 2012.

Total return for our investment portfolio outperformed that of the benchmark return index in 2014 and primarily reflected returns on our investment grade fixed income portfolio, augmented by strong returns on alternative investments and equities. Total return was impacted by strengthening of the U.S. Dollar against the Euro, British Pound Sterling and other major currencies on non-U.S. Dollar denominated investments during 2014. Excluding foreign exchange, total return was 4.26% for 2014, compared to 1.13% for 2013 and 5.59% for 2012.

#### Comment on Non-GAAP Financial Measures

Throughout this filing, we present our operations in the way we believe will be the most meaningful and useful to investors, analysts, rating agencies and others who use our financial information in evaluating the performance of our company. This presentation includes the use of after-tax operating income available to Arch common shareholders, which is defined as net income available to Arch common shareholders, excluding net realized gains or losses, net impairment losses recognized in earnings, equity in net income or loss of investment funds accounted for using the equity method, net foreign exchange gains or losses and loss on repurchase of preferred shares, net of income taxes. The presentation of after-tax operating income available to Arch common shareholders is a "non-GAAP financial measure" as defined in Regulation G. The reconciliation of such measure to net income available to Arch common shareholders (the most directly comparable GAAP financial measure) in accordance with Regulation G is included under "Results of Operations" below.

We believe that net realized gains or losses, net impairment losses recognized in earnings, equity in net income or loss of investment funds accounted for using the equity method, net foreign exchange gains or losses and loss on repurchase of preferred shares in any particular period are not indicative of the performance of, or trends in, our business. Although net realized gains or losses, net impairment losses recognized in earnings, equity in net income or

loss of investment funds accounted for using the equity method and net foreign exchange gains or losses are an integral part of our operations, the decision to realize investment gains or losses, the recognition of net impairment losses, the recognition of equity in net

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income or loss of investment funds accounted for using the equity method and the recognition of foreign exchange gains or losses are independent of the insurance underwriting process and result, in large part, from general economic and financial market conditions. Furthermore, certain users of our financial information believe that, for many companies, the timing of the realization of investment gains or losses is largely opportunistic. In addition, net impairment losses recognized in earnings on our investments represent other-than-temporary declines in expected recovery values on securities without actual realization. The use of the equity method on certain of our investments in certain funds that invest in fixed maturity securities is driven by the ownership structure of such funds (either limited partnerships or limited liability companies). In applying the equity method, these investments are initially recorded at cost and are subsequently adjusted based on our proportionate share of the net income or loss of the funds (which include changes in the fair value of the underlying securities in the funds). This method of accounting is different from the way we account for our other fixed maturity securities and the timing of the recognition of equity in net income or loss of investment funds accounted for using the equity method may differ from gains or losses in the future upon sale or maturity of such investments. The loss on repurchase of preferred shares, which related to the redemption of the Series A and B preferred shares in April 2012, had no impact on total shareholders' equity or cash flows. Due to these reasons, we exclude net realized gains or losses, net impairment losses recognized in earnings, equity in net income or loss of investment funds accounted for using the equity method, net foreign exchange gains or losses and loss on repurchase of preferred shares from the calculation of after-tax operating income available to Arch common shareholders.

We believe that showing net income available to Arch common shareholders exclusive of the items referred to above reflects the underlying fundamentals of our business since we evaluate the performance of and manage our underwriting to produce a profit. In addition to presenting net income available to Arch common shareholders, we believe that this presentation enables investors and other users of our financial information to analyze our performance in a manner similar to how management analyzes performance. We also believe that this measure follows industry practice and, therefore, allows the users of financial information to compare our performance with our industry peer group. We believe that the equity analysts and certain rating agencies which follow us and the insurance industry as a whole generally exclude these items from their analyses for the same reasons.

**RESULTS OF OPERATIONS**

The following table summarizes, on an after-tax basis, our consolidated financial data, including a reconciliation of after-tax operating income available to Arch common shareholders to net income available to Arch common shareholders:

	Year Ended December 31,		
	2014	2013	2012
After-tax operating income available to Arch common shareholders	\$617,312	\$595,715	\$350,640
Net realized gains, net of tax	122,863	73,844	184,083
Net impairment losses recognized in earnings, net of tax	(30,150)	(3,786)	(11,388)
Equity in net income of investment funds accounted for using the equity method, net of tax	19,235	35,738	73,510
Net foreign exchange gains (losses), net of tax	83,157	(13,718)	(28,527)
Loss on repurchase of preferred shares, net of tax	—	—	(10,612)
Net income available to Arch common shareholders	\$812,417	\$687,793	\$557,706

After-tax operating income in both 2014 and 2013 reflected a lower level of losses from catastrophic events compared to 2012. Results in all periods presented reflected the impact of current insurance and reinsurance market conditions and the impact of low interest yields on the investment portfolio.

**Segment Information**

During the 2014 first quarter, to reflect activity during the period as described below, we changed our segment structure and added two new segments (mortgage and 'other'). We now classify our businesses into three underwriting segments — insurance, reinsurance and mortgage — and two other operating segments — 'other' and corporate (non-underwriting). Our insurance, reinsurance and mortgage segments each have managers who are responsible for the overall profitability of their respective segments and who are directly accountable to our chief operating decision

makers, the Chairman, President and Chief Executive Officer of ACGL and the Chief Financial Officer of ACGL. The chief operating decision makers do not assess performance, measure return on equity or make resource allocation decisions on a line of business basis. Management measures segment performance for our three underwriting segments based on underwriting

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income or loss. We do not manage our assets by underwriting segment, with the exception of goodwill and intangible assets, and, accordingly, investment income is not allocated to each underwriting segment.

We determined our reportable segments using the management approach described in accounting guidance regarding disclosures about segments of an enterprise and related information. The accounting policies of the segments are the same as those used for the preparation of our consolidated financial statements. Intersegment business is allocated to the segment accountable for the underwriting results. The corporate (non-underwriting) segment results include net investment income, other income (loss), other expenses incurred by us, interest expense, net realized gains or losses, net impairment losses included in earnings, equity in net income (loss) of investment funds accounted for using the equity method, net foreign exchange gains or losses, income taxes and items related to our non-cumulative preferred shares. Such amounts exclude the results of the 'other' segment.

The mortgage segment was formed in the 2014 first quarter and consists of our mortgage insurance and reinsurance business, including Arch MI U.S. The mortgage segment also provides reinsurance on both a proportional and non-proportional basis globally, direct mortgage insurance in Europe and various risk-sharing products to government sponsored entities and mortgage lenders.

The 'other' segment includes the results of Watford Re, a multi-line Bermuda reinsurance company launched in late March 2014. Watford Re has its own management and board of directors that is responsible for the overall profitability of its results. We are required to consolidate the results of Watford Re in our financial statements. The portion of Watford Re's earnings attributable to third party investors is recorded in the consolidated statements of income as 'amounts attributable to noncontrolling interests.' For the 'other' segment, performance is measured based on net income or loss.

**Insurance Segment**

The following table sets forth our insurance segment's underwriting results:

	Year Ended December 31,			Year Ended December 31,		
	2014	2013	% Change	2013	2012	% Change
Gross premiums written	\$3,008,669	\$2,712,509	10.9	\$2,712,509	\$2,593,959	4.6
Premiums ceded	(862,015 )	(763,713 )		(763,713 )	(768,625 )	
Net premiums written	2,146,654	1,948,796	10.2	1,948,796	1,825,334	6.8
Change in unearned premiums	(129,284 )	(72,782 )		(72,782 )	(24,991 )	
Net premiums earned	2,017,370	1,876,014	7.5	1,876,014	1,800,343	4.2
Other underwriting income	2,135	2,122		2,122	2,335	
Losses and loss adjustment expenses	(1,260,953 )	(1,188,445 )		(1,188,445 )	(1,283,841 )	
Acquisition expenses, net	(316,308 )	(311,904 )		(311,904 )	(298,983 )	
Other operating expenses	(335,157 )	(315,387 )		(315,387 )	(307,489 )	
Underwriting income (loss)	\$107,087	\$62,400	71.6	\$62,400	\$(87,635 )	n/m

Underwriting Ratios	% Point Change			% Point Change		
Loss ratio	62.5	% 63.3	% (0.8 )	63.3	% 71.3	% (8.0 )
Acquisition expense ratio	15.7	% 16.6	% (0.9 )	16.6	% 16.6	% —
Other operating expense ratio	16.6	% 16.8	% (0.2 )	16.8	% 17.1	% (0.3 )
Combined ratio	94.8	% 96.7	% (1.9 )	96.7	% 105.0	% (8.3 )

The insurance segment consists of our insurance underwriting units which offer specialty product lines on a worldwide basis. Product lines include:

Construction and national accounts: primary and excess casualty coverages to middle and large accounts in the construction industry and a wide range of products for middle and large national accounts, specializing in loss sensitive primary casualty insurance programs (including large deductible, self-insured retention and retrospectively

rated programs).

Excess and surplus casualty: primary and excess casualty insurance coverages, including middle market energy business, and contract binding, which primarily provides casualty coverage through a network of appointed agents to small and medium risks.

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Lenders products: collateral protection, debt cancellation and service contract reimbursement products to banks, credit unions, automotive dealerships and original equipment manufacturers and other specialty programs that pertain to automotive lending and leasing.

Professional lines: directors' and officers' liability, errors and omissions liability, employment practices liability, fiduciary liability, crime, professional indemnity and other financial related coverages for corporate, private equity, venture capital, real estate investment trust, limited partnership, financial institution and not-for-profit clients of all sizes and medical professional and general liability insurance coverages for the healthcare industry. The business is predominately written on a claims-made basis.

Programs: primarily package policies, underwriting workers' compensation and umbrella liability business in support of desirable package programs, targeting program managers with unique expertise and niche products offering general liability, commercial automobile, inland marine and property business with minimal catastrophe exposure.

Property, energy, marine and aviation: primary and excess general property insurance coverages, including catastrophe-exposed property coverage, for commercial clients. Coverages for marine include hull, war, specie and liability. Aviation and stand alone terrorism are also offered.

Travel, accident and health: specialty travel and accident and related insurance products for individual, group travelers, travel agents and suppliers, as well as accident and health, which provides accident, disability and medical plan insurance coverages for employer groups, medical plan members, students and other participant groups.

Other: includes alternative market risks (including captive insurance programs), excess workers' compensation and employer's liability insurance coverages for qualified self-insured groups, associations and trusts, and contract and commercial surety coverages, including contract bonds (payment and performance bonds) primarily for medium and large contractors and commercial surety bonds for Fortune 1,000 companies and smaller transaction business programs.

#### Premiums Written.

The following table sets forth our insurance segment's net premiums written by major line of business:

	Year Ended December 31,					
	2014		2013		2012	
	Amount	%	Amount	%	Amount	%
Programs	\$480,580	22	\$419,673	22	\$340,130	19
Professional lines	476,604	22	476,193	25	548,423	30
Construction and national accounts	286,994	13	271,110	14	211,130	12
Property, energy, marine and aviation	244,640	11	280,551	14	294,690	16
Excess and surplus casualty	212,519	10	149,286	8	112,307	6
Travel, accident and health	145,732	7	104,903	5	106,871	6
Lenders products	100,407	6	101,576	5	99,724	5
Other	199,178	9	145,504	7	112,059	6
Total	\$2,146,654	100	\$1,948,796	100	\$1,825,334	100

2014 versus 2013: Net premiums written by the insurance segment were 10.2% higher in 2014 than in 2013. Increases in excess and surplus casualty, programs, travel, accident and health and other were partially offset by reductions in property, energy, marine and aviation. The increase in excess and surplus casualty primarily resulted from contract binding, launched in early 2013, while growth in program business was due to a combination of new business, underlying exposure growth and the impact of rate increases. Growth in travel, accident and health reflects primarily resulted from expansion in existing and new distribution channels while the increase in other lines primarily resulted from alternative markets business, which reflected new accounts written subsequent to a renewal rights agreement entered into in the 2014 second quarter. The decrease in property, energy, marine and aviation reflected reductions in property and marine business in response to current market conditions.

2013 versus 2012: Net premiums written by the insurance segment were 6.8% higher in 2013 than in 2012. Increases in programs, construction and national accounts, excess and surplus casualty and other were partially offset by



reductions in professional lines. The increase in program business was due to a combination of new business, underlying exposure growth and the impact of rate increases while the growth in construction and national accounts primarily resulted from new business and strong renewal retention. The increase in excess and surplus casualty primarily resulted from growth in

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contract binding while the increase in other lines primarily resulted from alternative markets business. The reductions in professional lines resulted from a continued strategic reduction in exposure to international business.

Net Premiums Earned.

The following table sets forth our insurance segment's net premiums earned by major line of business:

	Year Ended December 31,					
	2014		2013		2012	
	Amount	%	Amount	%	Amount	%
Programs	\$460,392	23	\$386,840	21	\$318,740	18
Property, energy, marine and aviation	456,508	23	491,791	26	536,971	30
Professional lines	277,811	14	250,729	14	209,217	12
Construction and national accounts	244,974	12	304,294	16	313,081	17
Excess and surplus casualty	182,024	9	118,395	6	113,597	6
Travel, accident and health	127,691	6	97,135	5	98,686	5
Lenders products	94,438	5	99,847	5	103,478	6
Other	173,532	8	126,983	7	106,573	6
Total	\$2,017,370	100	\$1,876,014	100	\$1,800,343	100

Net premiums earned by the insurance segment were 7.5% higher in 2014 than in 2013, reflecting changes in net premiums written over the previous five quarters. Net premiums earned by the insurance segment were 4.2% higher in 2013 than in 2012.

Losses and Loss Adjustment Expenses.

The table below shows the components of the insurance segment's loss ratio:

	Year Ended December 31,					
	2014		2013		2012	
		%		%		%
Current year	65.4	%	65.7	%	73.0	%
Prior period reserve development	(2.9)	)%	(2.4)	)%	(1.7)	)%
Loss ratio	62.5	%	63.3	%	71.3	%

Current Year Loss Ratio.

2014 versus 2013: The insurance segment's current year loss ratio was 0.3 points lower in 2014 than in 2013. The 2014 loss ratio included 0.7 points of current year catastrophic event activity, compared to 1.2 points in 2013. The 2014 loss ratio reflected estimated margin expansion along with changes in the mix of business.

2013 versus 2012: The insurance segment's current year loss ratio was 7.3 points lower in 2013 than in 2012. The 2013 loss ratio included 1.2 points of current year catastrophic event activity, compared to 5.9 points in 2012. The 2013 loss ratio reflected estimated margin expansion along with a lower level of non-catastrophic large loss activity than in 2012.

Prior Period Reserve Development.

2014 prior period reserve development: The insurance segment's net favorable development of \$58.7 million, or 2.9 points of net earned premium, consisted of \$73.5 million of net favorable development from short-tailed lines, partially offset by \$14.8 million of net adverse development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines predominantly consisted of \$60.5 million of net favorable development in property lines, primarily from the 2008 to 2013 accident years (i.e., the year in which a loss occurred), with the balance emanating from lenders products, primarily from the 2012 accident year, and travel and accident, primarily from the 2012 and 2013 accident years. Contained within this short tail release was favorable development of \$7.9 million from 2005 to 2013 named catastrophic events. Net adverse development in medium-tailed and long-tailed lines of \$14.8 million included a net increase of \$41.3 million in construction reserves, primarily from the 2009 to 2013 accident years. The adverse development in construction was largely driven by general liability claims involving New York labor law matters. In addition, the insurance segment experienced \$26.2 million of net adverse development in program business, primarily from the 2011 and 2012 accident years. Such amounts were partially offset by \$39.0 million of net favorable development on professional lines, primarily



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from the 2003 to 2011 accident years, and \$7.8 million of net favorable development on surety business, primarily from the 2011 to 2013 accident years.

2013 prior period reserve development: The insurance segment's net favorable development of \$45.1 million, or 2.4 points of net earned premium, consisted of \$67.0 million of net favorable development from short-tailed lines, partially offset by \$21.9 million of net adverse development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines predominantly consisted of \$62.4 million of net favorable development in property lines from the 2008 to 2011 accident years, with the balance emanating from lenders products, primarily from the 2011 and 2012 accident years, and travel and accident, primarily from the 2009 and 2010 accident years. Contained within this short tail release was favorable development of \$15.9 million from 2005 to 2012 named catastrophic events. Net adverse development in medium-tailed and long-tailed lines of \$21.9 million included a net increase of \$28.0 million in specialty casualty reserves. Such development primarily stemmed from losses in two captive programs written by the insurance segment's Canadian operation, which was partially offset by favorable development in non-captive business, and from three large excess casualty claims in the insurance segment's U.S. operation, all of the above in the more recent accident years. In addition, the insurance segment experienced \$26.2 million of net adverse development in program business, with nearly 90% of this development emanating from a single canceled program whose last inception year was 2011. Such amounts were partially offset by net favorable development spread across various lines and accident years.

2012 prior period reserve development: The insurance segment's net favorable development of \$31.2 million, or 1.7 points of net earned premium, consisted of \$79.3 million of net favorable development from short-tailed lines, partially offset by \$48.1 million of net adverse development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines predominantly consisted of \$69.0 million of net favorable development in property lines from the 2007 to 2011 accident years, with the balance emanating from travel and accident and lender's products, both primarily from the 2009 to 2011 accident years. Contained within this short tail release was favorable development of \$19.1 million from 2005 to 2011 named catastrophic events. Net adverse development in medium-tailed and long-tailed lines of \$48.1 million included a net increase of \$38.9 million from the insurance segment's U.K. underwriting operations for the 2007 to 2010 accident years, primarily due to an increase in Australian executive assurance reserves. In addition, U.S. primary specialty casualty reserves reflected a net increase of \$23.0 million, primarily from the 2003 to 2005 accident years, and \$19.8 million from U.S. professional liability in the two most recent accident years. Such amounts were partially offset by net favorable development spread across various lines and accident years.

#### Underwriting Expenses.

2014 versus 2013: The insurance segment's underwriting expense ratio was 32.3% in 2014, compared to 33.4% in 2013. The acquisition expense ratio was 15.7% for 2014, compared to 16.6% for 2013. The acquisition expense ratio is influenced by, among other things, (1) the amount of ceding commissions received from reinsurers, (2) the amount of business written on a surplus lines (non-admitted) basis and (3) mix of business. The 2014 acquisition expense ratio reflected changes in the form of reinsurance ceded and mix of business. The insurance segment's other operating expense ratio was 16.6% for 2014, compared to 16.8% for 2013, reflecting the benefits of continued expense management and a higher level of net premiums earned.

2013 versus 2012: The insurance segment's underwriting expense ratio was 33.4% in 2013, compared to 33.7% in 2012. The acquisition expense ratio was 16.6% for 2013, compared to 16.6% for 2012. The acquisition expense ratio is influenced by, among other things, (1) the amount of ceding commissions received from reinsurers, (2) the amount of business written on a surplus lines (non-admitted) basis and (3) mix of business. The 2013 acquisition expense ratio reflected changes in the form of reinsurance ceded and mix of business. The insurance segment's other operating expense ratio was 16.8% for 2013, compared to 17.1% for 2012, reflecting the benefits of continued expense management and a higher level of net premiums earned.

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## Reinsurance Segment

The following table sets forth our reinsurance segment's underwriting results:

	Year Ended December 31,			Year Ended December 31,		
	2014	2013	% Change	2013	2012	% Change
Gross premiums written	\$1,527,245	\$1,399,621	9.1	\$1,399,621	\$1,213,889	15.3
Premiums ceded	(261,254 )	(86,620 )		(86,620 )	(55,099 )	
Net premiums written	1,265,991	1,313,001	(3.6 )	1,313,001	1,158,790	13.3
Change in unearned premiums	13,337	(94,329 )		(94,329 )	(40,663 )	
Net premiums earned	1,279,328	1,218,672	5.0	1,218,672	1,118,127	9.0
Other underwriting income	3,167	5,258		5,258	5,755	
Losses and loss adjustment expenses	(532,450 )	(486,236 )		(486,236 )	(574,821 )	
Acquisition expenses, net	(261,438 )	(234,373 )		(234,373 )	(204,903 )	
Other operating expense	(147,964 )	(134,563 )		(134,563 )	(118,245 )	
Underwriting income	\$340,643	\$368,758	(7.6 )	\$368,758	\$225,913	63.2

Underwriting Ratios	% Point Change			% Point Change		
Loss ratio	41.6	% 39.9	% 1.7	39.9	% 51.4	% (11.5 )
Acquisition expense ratio	20.4	% 19.2	% 1.2	19.2	% 18.3	% 0.9
Other operating expense ratio	11.6	% 11.0	% 0.6	11.0	% 10.6	% 0.4
Combined ratio	73.6	% 70.1	% 3.5	70.1	% 80.3	% (10.2 )

The reinsurance segment consists of our reinsurance underwriting units which offer specialty product lines on a worldwide basis. Product lines include:

**Casualty:** provides coverage to ceding company clients on third party liability and workers' compensation exposures from ceding company clients, primarily on a treaty basis. Exposures include, among others, executive assurance, professional liability, workers' compensation, excess and umbrella liability, excess motor and healthcare business.

**Marine and aviation:** provides coverage for energy, hull, cargo, specie, liability and transit, and aviation business, including airline and general aviation risks. Business written may also include space business, which includes coverages for satellite assembly, launch and operation for commercial space programs.

**Other specialty:** provides coverage to ceding company clients for non-excess motor, including U.K. business primarily emanating from one client, and other lines including surety, accident and health, workers' compensation catastrophe, agriculture, trade credit and political risk.

**Property catastrophe:** provides protection for most catastrophic losses that are covered in the underlying policies written by reinsureds, including hurricane, earthquake, flood, tornado, hail and fire, and coverage for other perils on a case-by-case basis. Property catastrophe reinsurance provides coverage on an excess of loss basis when aggregate losses and loss adjustment expense from a single occurrence of a covered peril exceed the retention specified in the contract.

**Property excluding property catastrophe:** provides coverage for both personal lines and commercial property exposures and principally covers buildings, structures, equipment and contents. The primary perils in this business include fire, explosion, collapse, riot, vandalism, wind, tornado, flood and earthquake. Business is assumed on both a proportional and excess of loss basis. In addition, facultative business is written which focuses on commercial property risks on an excess of loss basis.

**Other.** includes life reinsurance business on both a proportional and non-proportional basis, casualty clash business and, in limited instances, non-traditional business which is intended to provide insurers with risk management solutions that complement traditional reinsurance.



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## Premiums Written.

The following table sets forth our reinsurance segment's net premiums written by major line of business:

	Year Ended December 31,					
	2014		2013		2012	
	Amount	%	Amount	%	Amount	%
Other specialty	\$405,126	32	\$417,865	32	\$308,104	27
Property excluding property catastrophe	343,043	27	292,536	22	265,783	23
Casualty	317,996	25	306,304	23	205,925	18
Property catastrophe	137,471	11	220,749	17	283,677	24
Marine and aviation	50,444	4	64,380	5	84,649	7
Other	11,911	1	11,167	1	10,652	1
Total	\$1,265,991	100	\$1,313,001	100	\$1,158,790	100
Pro rata	\$663,135	52	\$692,024	53	\$530,763	46
Excess of loss	602,856	48	620,977	47	628,027	54
Total	\$1,265,991	100	\$1,313,001	100	\$1,158,790	100

2014 versus 2013: Gross premiums written by the reinsurance segment in 2014 were 9.1% higher than in 2013, while net premiums written were 3.6% lower than in 2013. The differential in gross versus net premiums written reflects the cession of premiums to the 'other' segment (Watford Re) in 2014. The decline in net premiums written reflected reductions in property catastrophe and marine and aviation business, partially offset by an increase in property excluding property catastrophe and casualty business. The reduction in property catastrophe and marine and aviation business reflected non-renewals and share decreases in response to current market conditions and a higher usage of retrocessional coverage. The growth in property excluding property catastrophe business in the 2014 fourth quarter primarily resulted from an unearned premium portfolio transfer from Gulf Reinsurance Limited ("Gulf Re") of \$50.2 million. Effective as of October 1, 2014, we entered into a 90% whole account quota share retrocession arrangement of Gulf Re's net liabilities and a portfolio transfer of all of Gulf Re's existing business (both unearned premium and loss reserves). Growth in casualty premiums reflected new international excess motor business and quota shares of U.S. professional liability business.

2013 versus 2012: Net premiums written in 2013 were 13.3% higher than in 2012. The growth in net premiums written primarily reflected increases in other specialty and casualty lines, partially offset by reductions in property catastrophe and marine business. The increase in other specialty business was primarily due to a multi-line quota share reinsurance agreement entered into in the 2013 third quarter which resulted in approximately \$66 million of premiums written in 2013, including a \$40 million unearned premium transfer. In addition, other specialty premiums reflected growth in trade credit and crop hail business, partially offset by a continued reduction in non-excess motor business. Growth in casualty business was due, in part, to a professional liability quota share contract entered into in the 2013 fourth quarter which contributed \$59 million of premiums written in 2013, including a \$44 million unearned premium transfer, along with new casualty multi-line treaties written during 2013. The reduction in property catastrophe and marine business reflected market conditions, selected non-renewals and a higher usage of retrocessional coverage.

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## Net Premiums Earned.

The following table sets forth our reinsurance segment's net premiums earned by major line of business:

	Year Ended December 31,					
	2014		2013		2012	
	Amount	%	Amount	%	Amount	%
Other specialty	\$424,725	33	\$387,630	32	\$309,101	27
Property excluding property catastrophe	303,496	24	274,719	23	254,338	23
Casualty	327,518	26	241,774	20	188,963	17
Property catastrophe	150,761	11	232,423	19	280,185	25
Marine and aviation	61,118	5	70,105	5	76,145	7
Other	11,710	1	12,021	1	9,395	1
Total	\$1,279,328	100	\$1,218,672	100	\$1,118,127	100
Pro rata	\$686,201	54	\$608,586	50	\$499,094	45
Excess of loss	593,127	46	610,086	50	619,033	55
Total	\$1,279,328	100	\$1,218,672	100	\$1,118,127	100

Net premiums earned in 2014 were 5.0% higher than in 2013, reflecting changes in net premiums written over the previous five quarters, including the mix and type of business written. Net premiums earned in 2013 were 9.0% higher than in 2012.

## Losses and Loss Adjustment Expenses.

The table below shows the components of the reinsurance segment's loss ratio:

	Year Ended December 31,					
	2014		2013		2012	
Current year	62.5	%	57.8	%	68.4	%
Prior period reserve development	(20.9	)%	(17.9	)%	(17.0	)%
Loss ratio	41.6	%	39.9	%	51.4	%

## Current Year Loss Ratio.

2014 versus 2013: The reinsurance segment's current year loss ratio was 4.7 points higher in 2014 than in 2013. The 2014 loss ratio included 3.5 points for current year catastrophic event activity, compared to 5.4 points in 2013. The 2014 current year loss ratio reflected a significantly lower contribution from property catastrophe business than in 2013.

2013 versus 2012: The reinsurance segment's current year loss ratio was 10.6 points lower in 2013 than in 2012. The 2013 loss ratio included 5.4 points for current year catastrophic event activity, compared to 15.0 points in 2012. The 2013 loss ratio also reflected changes in the mix of business.

## Prior Period Reserve Development.

2014 prior period reserve development: The reinsurance segment's net favorable development of \$267.3 million, or 20.9 points of net earned premium, consisted of \$146.7 million from short-tailed lines and \$120.6 million of net favorable development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines included \$107.6 million from property catastrophe and property other than property catastrophe reserves, primarily from the 2011 to 2013 underwriting years (i.e., losses attributable to contracts having an inception or renewal date within the given twelve-month period). Contained within this release was favorable development of \$23.3 million from the 2005 to 2013 named catastrophic events. The net reduction of loss estimates for the reinsurance segment's short-tailed lines primarily resulted from varying levels of reported and paid claims activity than previously anticipated which led to decreases in certain loss ratio selections during 2014. Net favorable development of \$120.6 million in medium-tailed and long-tailed lines included reductions in casualty reserves of \$101.6 million, primarily from the 2003 to 2006 underwriting years and the 2009 and 2010 underwriting years, and marine and aviation reserves of \$14.7 million, primarily from the 2008 to 2012 underwriting years. The balance of net favorable development was spread across various lines and underwriting years.





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2013 prior period reserve development: The reinsurance segment's net favorable development of \$217.9 million, or 17.9 points of net earned premium, consisted of \$111.1 million from short-tailed lines and \$106.8 million of net favorable development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines included \$110.1 million from property catastrophe and property other than property catastrophe reserves, primarily from the 2009 to 2012 underwriting years. Contained within this release was favorable development of \$28.6 million from the 2005 to 2012 named catastrophic events. The net reduction of loss estimates for the reinsurance segment's short-tailed lines primarily resulted from varying levels of reported and paid claims activity than previously anticipated which led to decreases in certain loss ratio selections during 2013. Net favorable development of \$106.8 million in medium-tailed and long-tailed lines included reductions in casualty reserves of \$98.8 million, primarily from the 2003 to 2009 underwriting years, and marine and aviation reserves of \$8.1 million, primarily from the 2007 and 2009 underwriting years. The balance of net favorable development was spread across various lines and underwriting years.

2012 prior period reserve development: The reinsurance segment's net favorable development of \$190.3 million, or 17.0 points of net earned premium, consisted of \$117.6 million from short-tailed lines and \$72.7 million of net favorable development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines included \$92.1 million from property catastrophe and property other than property catastrophe reserves, primarily from the 2008 to 2011 underwriting years. Contained within this release was favorable development of \$16.8 million from the 2005 to 2011 named catastrophic events. The net reduction of loss estimates for the reinsurance segment's short-tailed lines primarily resulted from varying levels of reported and paid claims activity than previously anticipated which led to decreases in certain loss ratio selections during 2012. Net favorable development of \$72.7 million in medium-tailed and long-tailed lines included reductions in casualty reserves of \$55.9 million, primarily from the 2003 to 2009 underwriting years, and marine and aviation reserves of \$16.8 million, primarily from the 2008 to 2010 underwriting years. The balance of net favorable development was spread across various lines and underwriting years.

## Underwriting Expenses.

2014 versus 2013: The underwriting expense ratio for the reinsurance segment was 32.0% in 2014, compared to 30.2% in 2013. The acquisition expense ratio for 2014 was 20.4%, compared to 19.2% for 2013. The comparison of the 2014 and 2013 acquisition expense ratios is influenced by, among other things, the mix and type of business written and earned and the level of ceding commission income. The operating expense ratio for 2014 of 11.6% was higher than the 2013 ratio of 11.0% primarily due to selected expansion of the reinsurance segment's operating platform, partially offset by the benefits of a higher level of net premiums earned.

2013 versus 2012: The underwriting expense ratio for the reinsurance segment was 30.2% in 2013, compared to 28.9% in 2012. The acquisition expense ratio for 2013 was 19.2%, compared to 18.3% for 2012. The comparison of the 2013 and 2012 acquisition expense ratios is influenced by, among other things, the mix and type of business written and earned and the level of ceding commission income. The operating expense ratio for 2013 of 11.0% was higher than the 2012 ratio of 10.6% primarily due to selected expansion of the reinsurance segment's operating platform, partially offset by the benefits of a higher level of net premiums earned.

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## Mortgage Segment

The following table sets forth our mortgage segment's underwriting results:

	Year Ended December 31,			Year Ended December 31,		
	2014	2013	% Change	2013	2012	% Change
Gross premiums written	\$227,356	\$89,570	153.8	\$89,570	\$68,111	31.5
Premiums ceded	(22,519 )	—		—	—	
Net premiums written	204,837	89,570	128.7	89,570	68,111	31.5
Change in unearned premiums	(11,264 )	(38,304 )		(38,304 )	(51,441 )	
Net premiums earned	193,573	51,266	277.6	51,266	16,670	207.5
Other underwriting income	4,840	259		259	—	
Losses and loss adjustment expenses	(55,674 )	(4,743 )		(4,743 )	(2,615 )	
Acquisition expenses, net	(49,400 )	(17,826 )		(17,826 )	(4,998 )	
Other operating expense	(66,891 )	(8,377 )		(8,377 )	(4,301 )	
Underwriting income	\$26,448	\$20,579	28.5	\$20,579	\$4,756	332.7

Underwriting Ratios	% Point Change			% Point Change		
Loss ratio	28.8	% 9.3	% 19.5	9.3	% 15.7	% (6.4 )
Acquisition expense ratio	25.5	% 34.8	% (9.3 )	34.8	% 30.0	% 4.8
Other operating expense ratio	34.6	% 16.3	% 18.3	16.3	% 25.8	% (9.5 )
Combined ratio	88.9	% 60.4	% 28.5	60.4	% 71.5	% (11.1 )

The mortgage segment includes the results of Arch MI U.S., a leading provider of mortgage insurance products and services to credit unions in the U.S. marketplace, which was acquired in January 2014, along with other global mortgage insurance, reinsurance and risk-sharing products. Since the acquisition, Arch MI U.S. has substantially completed building out its sales force to serve banks and other mortgage originators.

## Premiums Written.

The following table sets forth our mortgage segment's net premiums written by client location and underwriting location (i.e., where the business is underwritten):

	Year Ended December 31,		
	2014	2013	2012
Net premiums written by client location			
United States	\$184,333	\$63,692	\$61,571
Other	20,504	25,878	6,540
Total	\$204,837	\$89,570	\$68,111
Net premiums written by underwriting location			
United States	\$98,809	\$—	\$—
Other	106,028	89,570	68,111
Total	\$204,837	\$89,570	\$68,111

2014 versus 2013: Net premiums written in 2014 included \$98.8 million of business underwritten by Arch MI U.S., including \$90.0 million from credit union clients and \$8.8 million from banks and other mortgage lenders. In addition, net premiums written included \$32.5 million from the 100% quota share indemnity reinsurance agreement with PMI Mortgage Insurance Co., in Rehabilitation ("PMI") for performing certificates of insurance that were issued by PMI from 2009 to 2011, along with growth in U.S. mortgage reinsurance business. The persistency rate of the Arch MI

U.S. portfolio of mortgage loans was 80.9% at December 31, 2014. The persistency rate represents the percentage of mortgage insurance in force at the beginning of a 12-month period that remains in force at the end of such period.

2013 versus 2012: Net premiums written for 2013 and 2012 related to reinsurance treaties covering U.S. and international mortgages. The 31.5% increase in net premiums written primarily resulted from new international mortgage reinsurance business written in 2013.

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Arch MI U.S. generated \$4.92 billion of new insurance written (“NIW”) during 2014. NIW represents the original principal balance of all loans that received coverage during the period. The following table provides details on the NIW generated by Arch MI U.S., including information on credit quality and loan-to-value (“LTV”), for the 2014 periods:

(U.S. Dollars in millions)	Three Months Ended						Year Ended			
	December 31, 2014		September 30, 2014		June 30, 2014		March 31, 2014 (1)		December 31, 2014 (1)	
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%
Total new insurance written (NIW)	\$1,359		\$1,982		\$941		\$639		\$4,921	
Total NIW by credit quality (FICO score):										
>=740	\$730	54	\$1,279	64	\$534	57	\$375	59	\$2,918	59
680-739	480	35	629	32	339	36	225	35	1,673	34
620-679	149	11	74	4	68	7	39	6	330	7
Total	\$1,359	100	\$1,982	100	\$941	100	\$639	100	\$4,921	100
Total NIW by LTV:										
95.01% and above	\$79	6	\$81	4	\$70	8	\$45	7	\$275	6
90.01% to 95.00%	620	45	904	46	500	53	330	52	2,354	48
85.01% to 90.00%	389	29	646	32	265	28	186	29	1,486	30
85.01% and below	271	20	351	18	106	11	78	12	806	16
Total	\$1,359	100	\$1,982	100	\$941	100	\$639	100	\$4,921	100
Total NIW purchase vs. refinance:										
Purchase	\$950	70	\$1,234	62	\$786	84	\$487	76	\$3,457	70
Refinance	409	30	748	38	155	16	152	24	1,464	30
Total	\$1,359	100	\$1,982	100	\$941	100	\$639	100	\$4,921	100

(1) Includes activity for January 2014 for comparability purposes (pre-acquisition date).

#### Net Premiums Earned.

Net premiums earned for 2014 was substantially higher than in 2013, primarily due to the acquisition of Arch MI U.S. along with a higher earned contribution from the mortgage segment’s quota share reinsurance business. Growth from 2012 to 2013 reflects the expansion of the mortgage segment in the periods.

#### Other Underwriting Income.

Other underwriting income for 2014 was \$4.8 million, compared to \$0.3 million for 2013. Such amounts primarily relate to risk-sharing products to government sponsored entities and mortgage lenders.

#### Losses and Loss Adjustment Expenses.

The table below shows the components of the mortgage segment’s loss ratio:

Year Ended December 31,

	2014		2013		2012	
Current year	29.3		% 11.2		% 15.7	%
Prior period reserve development	(0.5	)%	(1.9	)%	—	
Loss ratio	28.8		% 9.3		% 15.7	%

Unlike property and casualty business for which we estimate ultimate losses on premiums earned, losses on mortgage insurance business are only recorded at the time a borrower is delinquent on their mortgage, in accordance with mortgage insurance industry practice. Because our mortgage insurance reserving process does not take into account the impact of future losses from loans that are not in default, mortgage insurance loss reserves are not an estimate of ultimate losses. In addition to establishing loss reserves for loans in default, under GAAP, we are required to establish a premium deficiency reserve for our mortgage insurance products if the amount of expected future losses for a particular product and maintenance costs for such product exceeds expected future premiums, existing reserves and the anticipated investment

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income for such product. We evaluate whether a premium deficiency exists quarterly. No such reserve was established during 2014.

The mortgage segment's current year loss ratio was 18.1 points higher in 2014 compared to 2013 and 4.5 points lower in 2013 compared to 2012. The current year loss ratio for 2014 reflects changes in the mix of business earned, resulting primarily from our acquisition of Arch MI U.S. The lower current year loss ratio for 2013 compared to 2012 resulted from changes in the mix of business earned and favorable experience on U.S. mortgage reinsurance business. The mortgage segment's net favorable development on prior period reserves for 2014 and 2013 was spread across a number of underwriting years.

Underwriting Expenses.

2014 versus 2013: The underwriting expense ratio for the mortgage segment was 60.1% for 2014, compared to 51.1% for 2013. The acquisition expense ratio was 25.5% for 2014, compared to 34.8% for 2013. The operating expense ratio was 34.6% for 2014, compared to 16.3% for 2013. The increase in the underwriting expense ratio reflects the addition of Arch MI U.S. As the mortgage segment's mix is expected to shift more towards U.S. mortgage insurance business over time, the underwriting expense ratio is expected to stay at an elevated rate until Arch MI U.S. reaches scale.

2013 versus 2012: The underwriting expense ratio for the mortgage segment was 51.1% for 2013, compared to 55.8% for 2012. The acquisition expense ratio was 34.8% for 2013, compared to 30.0% for 2012. The operating expense ratio was 16.3% for 2013, compared to 25.8% for 2012. Such amounts relate to the mortgage segment's reinsurance business for both periods. The reduction in the operating expense ratio reflects the impact of higher net premiums earned in 2013.

Other Segment

As noted earlier, the 'other' segment includes the results of Watford Re. Watford Re has its own management and board of directors and is responsible for the overall profitability of its results. We act as Watford Re's reinsurance underwriting manager and Highbridge Principal Strategies, a subsidiary of JPMorgan Chase & Co., manages Watford Re's investment assets, each under a long term services agreement. We invested \$100.0 million to acquire approximately 11% of Watford Re's common equity and a warrant to purchase additional common equity. We performed an analysis of Watford Re and concluded that Watford Re is a variable interest entity ("VIE") and concluded that we are the primary beneficiary of Watford Re. As such, 100% of the results of Watford Re are included in our consolidated financial statements. Management measures segment performance for the 'other' segment based on net income or loss. See note 4, "Variable Interest Entity and Noncontrolling Interests" and note 5, "Segment Information," of the notes accompanying our consolidated financial statements for additional information.

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The following table sets forth our 'other' segment's results:

	Year Ended December 31, 2014	
Gross premiums written	\$288,627	
Premiums ceded	(14,171	)
Net premiums written	274,456	
Change in unearned premiums	(170,979	)
Net premiums earned	103,477	
Losses and loss adjustment expenses	(70,173	)
Acquisition expenses, net	(30,116	)
Other operating expenses	(6,268	)
Underwriting income (loss)	(3,080	)
Net investment income	18,249	
Other expenses	(2,329	)
Net realized gains	(30,467	)
Net foreign exchange gains	1,086	
Net income (loss)	(16,541	)
Dividends attributable to redeemable noncontrolling interests (1)	(14,728	)
Net income (loss) attributable to common interests	(31,269	)
Amounts attributable to nonredeemable noncontrolling interests (1)	27,823	
Net income (loss) available to Arch	\$(3,446	)
Underwriting Ratios		
Loss ratio	67.8	%
Acquisition expense ratio	29.1	%
Other operating expense ratio	6.1	%
Combined ratio	103.0	%
Total investable assets	\$1,163,240	
Total assets	1,482,516	
Total liabilities	398,660	

(1) Recorded as 'amounts attributable to noncontrolling interests' in the consolidated statements of income.

Other Income or Expense Items (excluding amounts related to the 'other' segment)

Net Investment Income. The components of net investment income were derived from the following sources:

	Year Ended December 31,		
	2014	2013	2012
Fixed maturities	\$265,219	\$249,833	\$281,140
Term loan investments	39,940	20,608	15,283
Equity securities	13,005	8,919	7,963
Short-term investments	1,888	1,259	1,980
Other (1)	28,869	19,710	14,196
Gross investment income	348,921	300,329	320,562
Investment expenses	(46,336	) (33,110	) (25,667
Net investment income	\$302,585	\$267,219	\$294,895

(1) Includes dividends on investment funds and other items.



The pre-tax investment income yield was 2.08% for 2014, compared to 2.12% for 2013 and 2.51% for 2012. The comparability of net investment income between the periods was influenced by our share repurchase program, as well as the decrease in the pre-tax investment income yield, due in part to the prevailing interest rate environment. The pre-tax investment income yields were calculated based on amortized cost. Yields on future investment income may vary based on financial market conditions, investment allocation decisions and other factors.

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Other Income (Loss). Other income or loss primarily reflects the results from our investment in Gulf Reinsurance Limited (“Gulf Re”) and certain other investments which are accounted for using the equity method on a three month lag basis based on the availability of their financial statements. In addition, other income (loss) from time to time includes certain non-recurring items. For such items, we recorded a loss of \$10.3 million for 2014, compared to a loss of \$0.6 million for 2013, and a loss of \$12.1 million for 2012. Results for 2014 reflected \$14.1 million of losses from Gulf Re, which experienced a number of large technical risk losses. Results for 2012 reflected results from our investment in Aeolus L.P., which experienced a high level of losses from catastrophic activity. See note 10, “Investment in Joint Venture,” of the notes accompanying our consolidated financial statements for additional information on Gulf Re.

Equity in Net Income (Loss) of Investment Funds Accounted for Using the Equity Method. We recorded \$19.9 million of equity in net income for 2014, compared to \$35.7 million for 2013 and \$73.5 million for 2012. We use the equity method on certain investments (which primarily invest in fixed maturity securities) due to the ownership structure of these investment funds, where we do not have a controlling interest and are not the primary beneficiary. In applying the equity method, these investments are initially recorded at cost and are subsequently adjusted based on our proportionate share of the net income or loss of the funds (which include changes in the market value of the underlying securities in the funds). Such investments, which are typically structured as limited partnerships, are generally recorded on a one to three month lag based on the availability of reports from the investment funds. Certain of these funds employ leverage to achieve a higher rate of return on their assets under management. While leverage presents opportunities for increasing the total return of such investments, it may increase losses as well. Fluctuations in the carrying value of the investment funds accounted for using the equity method may increase the volatility of our reported results of operations. Investment funds accounted for using the equity method totaled \$349.0 million at December 31, 2014, compared to \$244.3 million at December 31, 2013.

Net Realized Gains (Losses). We recorded net realized gains of \$133.4 million, \$74.0 million and \$194.2 million, respectively, for 2014, 2013 and 2012. Currently, our portfolio is actively managed to maximize total return within certain guidelines. In assessing returns under this approach, we include net investment income, net realized gains and losses and the change in unrealized gains and losses generated by our investment portfolio. The effect of financial market movements on the investment portfolio will directly impact net realized gains and losses as the portfolio is adjusted and rebalanced. Net realized gains or losses from the sale of fixed maturities primarily resulted from our decisions to reduce credit exposure, to change duration targets, to rebalance our portfolios or due to relative value determinations. Net realized gains or losses also included changes in the fair value of assets and liabilities accounted for using the fair value option along with remeasurement of the contingent consideration liability related to our purchase of the CMG Entities. See note 2, “Business Acquired,” and note 8, “Investment Information—Net Realized Gains (Losses),” of the notes accompanying our consolidated financial statements for additional information.

Net Impairment Losses Recognized in Earnings. On a quarterly basis, we perform reviews of our available for sale investments to determine whether declines in fair value below the cost basis are considered other-than-temporary in accordance with applicable accounting guidance regarding the recognition and presentation of other-than-temporary impairments. The process of determining whether a security is other-than-temporarily impaired requires judgment and involves analyzing many factors. These factors include (i) an analysis of the liquidity, business prospects and overall financial condition of the issuer, (ii) the time period in which there was a significant decline in value, (iii) the significance of the decline, and (iv) the analysis of specific credit events. We evaluate the unrealized losses of our equity securities by issuer and determine if we can forecast a reasonable period of time by which the fair value of the securities would increase and we would recover our cost. If we are unable to forecast a reasonable period of time in which to recover the cost of our equity securities, we record a net impairment loss in earnings equivalent to the entire unrealized loss. For 2014, we recorded \$30.2 million of credit related impairments in earnings, compared to \$3.8 million in 2013 and \$11.4 million in 2012. The other-than-temporary impairments (“OTTI”) recorded in 2014 primarily resulted from impairments taken on one investment fund where we determined that we did not intend to hold such investment for a reasonable period of time by which the fair value of the fund would increase and we would recover our cost, while impairments in 2013 and 2012 primarily resulted from reductions in estimated recovery values on certain mortgage-backed and asset-backed securities following the review of such securities and on equity securities following a review of available positive and negative evidence. See note 8, “Investment

Information—Other-Than-Temporary Impairments,” of the notes accompanying our consolidated financial statements for additional information.

Other Expenses. Other expenses, which are included in our other operating expenses, were \$47.6 million for 2014, compared to \$42.4 million for 2013 and \$35.3 million for 2012. Such amounts are included in the corporate (non-underwriting) segment and primarily represent certain holding company costs necessary to support our worldwide

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insurance and reinsurance operations, share based compensation expense and costs associated with operating as a publicly traded company.

**Interest Expense.** Interest expense was \$45.6 million for 2014, compared to \$27.1 million for 2013 and \$28.5 million for 2012. Interest expense for 2014 included \$49.5 million related to our senior notes and other borrowings, partially offset by a \$3.9 million reduction in interest expense on a deposit accounting liability (i.e., a contract that does not pass risk transfer) in accordance with GAAP. The reduction resulted from a reassessment of the estimated ultimate liability in the 2014 third quarter due to a determination that paid losses are expected to be lower than initially anticipated. Because the contract does not pass risk transfer under GAAP, it is accounted for similar to a borrowing with accretion and changes in expectations surrounding the estimated ultimate liability impacting interest expense. The reduction of the estimated ultimate liability reduced the rate of accretion recorded in interest expense in the second half of 2014 and is expected to reduce the rate of accretion for future periods. The higher level of interest expense for 2014 compared to 2013 and 2012 primarily resulted from interest related to the \$500.0 million of 5.144% senior notes issued by Arch Capital Group (U.S.) Inc. (“Arch-U.S.”) in December 2013.

**Net Foreign Exchange Gains or Losses.** Net foreign exchange gains for 2014 of \$82.7 million consisted of net unrealized gains of \$84.8 million and net realized losses of \$2.1 million, compared to net foreign exchange losses for 2013 of \$12.3 million which consisted of net unrealized gains of \$0.7 million and net realized losses of \$13.0 million and net foreign exchange losses for 2012 of \$29.0 million which consisted of net unrealized losses of \$27.3 million and net realized losses of \$1.6 million. Net unrealized foreign exchange gains or losses result from the effects of revaluing our net insurance liabilities required to be settled in foreign currencies at each balance sheet date.

Historically, we have held investments in foreign currencies which are intended to mitigate our exposure to foreign currency fluctuations in our net insurance liabilities. However, changes in the value of such investments due to foreign currency rate movements are reflected as a direct increase or decrease to shareholders’ equity and are not included in the consolidated statements of income. At times, we have chosen not to match portions of our projected liabilities in foreign currencies with investments in the same currencies and may not match such amounts in future periods, which could increase our exposure to foreign currency fluctuations and increase the volatility of our shareholders’ equity.

**Loss on Repurchase of Preferred Shares.** Following the issuance of \$325.0 million of 6.75% Series C preferred shares in April 2012, we redeemed all of our \$200.0 million of 8.0% Series A preferred shares and \$125.0 million of 7.875% Series B preferred shares at a redemption price equal to \$25.00 per share in May 2012. In accordance with GAAP, upon issuance of the Series A and B preferred shares in 2006, costs of \$10.6 million were recognized as a reduction of additional paid-in capital in shareholders’ equity. Following the redemption of such shares, such issue costs were recorded as a “loss on repurchase of preferred shares” to remove the costs from additional paid-in capital. Such adjustment had no impact on total shareholders’ equity or cash flows.

**Income Tax Expense.** Our income tax provision on income before income taxes resulted in an expense of 2.7% for 2014, compared to an expense of 4.4% for 2013 and a benefit of 0.7% for 2012. Our effective tax rate fluctuates from year to year consistent with the relative mix of income or loss reported by jurisdiction and the varying tax rates in each jurisdiction. See note 14, “Income Taxes,” of the notes accompanying our consolidated financial statements for a reconciliation of the difference between the provision for income taxes and the expected tax provision at the weighted average statutory tax rate for 2014, 2013 and 2012.

**CRITICAL ACCOUNTING POLICIES, ESTIMATES AND RECENT ACCOUNTING PRONOUNCEMENTS**

The preparation of consolidated financial statements in accordance with GAAP requires us to make many estimates and judgments that affect the reported amounts of assets, liabilities (including reserves), revenues and expenses, and related disclosures of contingent liabilities. On an ongoing basis, we evaluate our estimates, including those related to revenue recognition, insurance and other reserves, reinsurance recoverables, allowance for doubtful accounts, investment valuations, intangible assets, bad debts, income taxes, contingencies and litigation. We base our estimates on historical experience, where possible, and on various other assumptions that we believe to be reasonable under the circumstances, which form the basis for our judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Estimates and judgments for a relatively new insurance and reinsurance company, like our company, are even more difficult to make than those made in a mature company since relatively

limited historical information has been reported to us through December 31, 2014. Actual results will differ from these estimates and such differences may be material. We believe that the following critical accounting policies affect significant estimates used in the preparation of our consolidated financial statements.

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## Reserves for Losses and Loss Adjustment Expenses

We are required by applicable insurance laws and regulations and GAAP to establish reserves for losses and loss adjustment expenses (“Loss Reserves”) that arise from the business we underwrite. Loss Reserves for our insurance and reinsurance operations are balance sheet liabilities representing estimates of future amounts required to pay losses and loss adjustment expenses for insured or reinsured events which have occurred at or before the balance sheet date. Loss Reserves do not reflect contingency reserve allowances to account for future loss occurrences. Losses arising from future events will be estimated and recognized at the time the losses are incurred and could be substantial.

At December 31, 2014 and 2013, our Loss Reserves, net of unpaid losses and loss adjustment expenses recoverable, by type and by operating segment were as follows:

	December 31, 2014	2013
Insurance:		
Case reserves	\$1,459,040	\$1,446,029
IBNR reserves	3,066,962	3,037,755
Total net reserves	4,526,002	4,483,784
Reinsurance:		
Case reserves	794,838	749,830
Additional case reserves	97,413	113,331
IBNR reserves	1,658,468	1,722,214
Total net reserves	2,550,719	2,585,375
Mortgage:		
Case reserves	96,092	1,419
IBNR reserves	21,709	5,868
Total net reserves	117,801	7,287
Other:		
Case reserves	12,010	—
IBNR reserves	51,613	—
Total net reserves	63,623	—
Total:		
Case reserves	2,361,980	2,197,278
Additional case reserves	97,413	113,331
IBNR reserves	4,798,752	4,765,837
Total net reserves	\$7,258,145	\$7,076,446

## Insurance Operations

Loss Reserves for our insurance operations are comprised of (1) estimated amounts for claims reported (“case reserves”) and (2) incurred but not reported (“IBNR”) losses. For our insurance operations, generally, claims personnel determine whether to establish a case reserve for the estimated amount of the ultimate settlement of individual claims. The estimate reflects the judgment of claims personnel based on general corporate reserving practices, the experience and knowledge of such personnel regarding the nature and value of the specific type of claim and, where appropriate, advice of counsel. Our insurance operations also contract with a number of outside third party administrators in the claims process who, in certain cases, have limited authority to establish case reserves. The work of such administrators is reviewed and monitored by our claims personnel. Loss Reserves are also established to provide for loss adjustment expenses and represent the estimated expense of settling claims, including legal and other fees and the general expenses of administering the claims adjustment process. Periodically, adjustments to the reported or case reserves may be made as additional information regarding the claims is reported or payments are made. IBNR reserves are established to provide for incurred claims which have not yet been reported at the balance sheet date as well as to adjust for any projected variance in case reserving. Actuaries estimate ultimate losses and loss adjustment expenses using various generally accepted actuarial methods applied to known losses and other relevant information. Like case reserves, IBNR reserves are adjusted as additional information becomes known or payments are made. The process of

estimating reserves involves a considerable degree of judgment by management and, as of any given date, is inherently uncertain.

Ultimate losses and loss adjustment expenses are generally determined by extrapolation of claim emergence and settlement patterns observed in the past that can reasonably be expected to persist into the future. In forecasting ultimate

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losses and loss adjustment expenses with respect to any line of business, past experience with respect to that line of business is the primary resource, developed through both industry and company experience, but cannot be relied upon in isolation. Uncertainties in estimating ultimate losses and loss adjustment expenses are magnified by the time lag between when a claim actually occurs and when it is reported and settled. This time lag is sometimes referred to as the “claim-tail.” The claim-tail for most property coverages is typically short (usually several months up to a few years). The claim-tail for certain professional liability, executive assurance and healthcare coverages, which are generally written on a claims-made basis, is typically longer than property coverages but shorter than casualty lines. The claim-tail for liability/casualty coverages, such as general liability, products liability, multiple peril coverage, and workers’ compensation, may be especially long as claims are often reported and ultimately paid or settled years, or even decades, after the related loss events occur. During the long claims reporting and settlement period, additional facts regarding coverages written in prior accident years, as well as about actual claims and trends, may become known and, as a result, our insurance operations may adjust their reserves. If management determines that an adjustment is appropriate, the adjustment is recorded in the accounting period in which such determination is made in accordance with GAAP. Accordingly, should Loss Reserves need to be increased or decreased in the future from amounts currently established, future results of operations would be negatively or positively impacted, respectively. In determining ultimate losses and loss adjustment expenses, the cost to indemnify claimants, provide needed legal defense and other services for insureds and administer the investigation and adjustment of claims are considered. These claim costs are influenced by many factors that change over time, such as expanded coverage definitions as a result of new court decisions, inflation in costs to repair or replace damaged property, inflation in the cost of medical services and legislated changes in statutory benefits, as well as by the particular, unique facts that pertain to each claim. As a result, the rate at which claims arose in the past and the costs to settle them may not always be representative of what will occur in the future. The factors influencing changes in claim costs are often difficult to isolate or quantify and developments in paid and incurred losses from historical trends are frequently subject to multiple and conflicting interpretations. Changes in coverage terms or claims handling practices may also cause future experience and/or development patterns to vary from the past. A key objective of actuaries in developing estimates of ultimate losses and loss adjustment expenses, and resulting IBNR reserves, is to identify aberrations and systemic changes occurring within historical experience and accurately adjust for them so that the future can be projected reliably. Because of the factors previously discussed, this process requires the substantial use of informed judgment and is inherently uncertain.

At December 31, 2014 and 2013, the insurance segment’s Loss Reserves by major line of business, net of unpaid losses and loss adjustment expenses recoverable, were as follows:

	December 31,	
	2014	2013
Professional lines (1)	\$1,453,770	\$1,525,360
Construction and national accounts	806,007	694,721
Excess and surplus casualty (2)	683,305	678,893
Programs	669,601	644,689
Property, energy, marine and aviation	407,730	503,208
Travel, accident and health	60,888	49,934
Lenders products	40,579	31,076
Other (3)	404,122	355,903
Total net reserves	\$4,526,002	\$4,483,784

(1)Includes professional liability, executive assurance and healthcare business.

(2)Includes casualty and contract binding business.

(3)Includes alternative markets, excess workers’ compensation and surety business.

The initial reserving method for our insurance operations to date has been, to a large extent, the expected loss method, which is commonly applied when limited loss experience exists. Our insurance operations employ a number of



different reserving methods depending on the line of business, the availability of historical loss experience and the stability of that loss experience. Over time, such techniques have been given more weight in the reserving process due to the continuing maturation of their Loss Reserves and the increased availability and credibility of the historical experience. Any estimates and assumptions made as part of the reserving process could prove to be inaccurate due to several factors, including the fact

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that relatively limited historical information has been reported to our insurance operations through December 31, 2014 in some lines of business. See below for a discussion of the key assumptions in our insurance operations' reserving process.

Although Loss Reserves are initially determined based on underwriting and pricing analyses, our insurance operations apply several generally accepted actuarial methods, as discussed below, on a quarterly basis to evaluate their Loss Reserves, in addition to the expected loss method, in particular for Loss Reserves from more mature accident years (the year in which a loss occurred). As noted below, our insurance operations give some weight to their own experience following reviews of open claims on lines of business written on a claims-made basis for which they developed a reasonable level of credible data. Each quarter, as part of the reserving process, actuaries at our insurance operations reaffirm that the assumptions used in the reserving process continue to form a sound basis for the projection of liabilities. If actual loss activity differs substantially from expectations based on historical information, an adjustment to loss reserves may be supported. Loss Reserves for more mature accident years are now based more on historical loss activity and patterns than on the initial assumptions based on pricing indications. More recent accident years rely more heavily on internal pricing assumptions. Our insurance operations place more or less reliance on a particular actuarial method based on the facts and circumstances at the time the estimates of Loss Reserves are made. These methods generally fall into one of the following categories or are hybrids of one or more of the following categories:

**Expected loss methods** – these methods are based on the assumption that ultimate losses vary proportionately with premiums. Expected loss and loss adjustment expense ratios are typically developed based upon the information derived by underwriters and actuaries during the initial pricing of the business, supplemented by industry data available from organizations, such as statistical bureaus and consulting firms, where appropriate. These ratios consider, among other things, rate increases and changes in terms and conditions that have been observed in the market. Expected loss methods are useful for estimating ultimate losses and loss adjustment expenses in the early years of long-tailed lines of business, when little or no paid or incurred loss information is available, and is commonly applied when limited loss experience exists for a company.

**Historical incurred loss development methods** – these methods assume that the ratio of losses in one period to losses in an earlier period will remain constant in the future. These methods use incurred losses (i.e., the sum of cumulative historical loss payments plus outstanding case reserves) over discrete periods of time to estimate future losses.

Historical incurred loss development methods may be preferable to historical paid loss development methods because they explicitly take into account open cases and the claims adjusters' evaluations of the cost to settle all known claims. However, historical incurred loss development methods necessarily assume that case reserving practices are consistently applied over time. Therefore, when there have been significant changes in how case reserves are established, using incurred loss data to project ultimate losses may be less reliable than other methods.

**Historical paid loss development methods** – these methods, like historical incurred loss development methods, assume that the ratio of losses in one period to losses in an earlier period will remain constant. These methods use historical loss payments over discrete periods of time to estimate future losses and necessarily assume that factors that have affected paid losses in the past, such as inflation or the effects of litigation, will remain constant in the future. Because historical paid loss development methods do not use incurred losses to estimate ultimate losses, they may be more reliable than the other methods that use incurred losses in situations where there are significant changes in how incurred losses are established by a company's claims adjusters. However, historical paid loss development methods are more leveraged (meaning that small changes in payments have a larger impact on estimates of ultimate losses) than actuarial methods that use incurred losses because cumulative loss payments take much longer to equal the expected ultimate losses than cumulative incurred amounts. In addition, and for similar reasons, historical paid loss development methods are often slow to react to situations when new or different factors arise than those that have affected paid losses in the past.

**Adjusted historical paid and incurred loss development methods** – these methods take traditional historical paid and incurred loss development methods and adjust them for the estimated impact of changes from the past in factors such as inflation, the speed of claim payments or the adequacy of case reserves. Adjusted historical paid and incurred loss development methods are often more reliable methods of predicting ultimate losses in periods of significant change,

provided the actuaries can develop methods to reasonably quantify the impact of changes. As such, these methods utilize more judgment than historical paid and incurred loss development methods.

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Bornhuetter-Ferguson (“B-F”) paid and incurred loss methods – these methods utilize actual paid and incurred losses and expected patterns of paid and incurred losses, taking the initial expected ultimate losses into account to determine an estimate of expected ultimate losses. The B-F paid and incurred loss methods are useful when there are few reported claims and a relatively less stable pattern of reported losses.

Additional analyses – other methodologies are often used in the reserving process for specific types of claims or events, such as catastrophic or other specific major events. These include vendor catastrophe models, which are typically used in the estimation of Loss Reserves at the early stage of known catastrophic events before information has been reported to an insurer or reinsurer, and analyses of specific industry events, such as large lawsuits or claims.

In the initial reserving process for casualty business, primarily consisting of primary and excess exposures written on an occurrence basis, our insurance operations primarily rely on the expected loss method. The development of our insurance operations’ casualty business may be unstable due to its long-tail nature and the occurrence of high severity events, as a portion of our insurance operations’ casualty business is in high excess layers. As time passes, for a given accident year, additional weight is given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. Our insurance operations make a number of key assumptions in reserving for casualty business, including that the pricing loss ratio is the best estimate of the ultimate loss ratio at the time the policy is entered into, that our insurance operations’ loss development patterns, which are based on a combination of company and industry loss development patterns and adjusted to reflect differences in our insurance operations’ mix of business, are reasonable and that our insurance operations’ claims personnel and underwriters analyses of our exposure to major events are assumed to be our best estimate of our exposure to the known claims on those events. As noted earlier, due to the long claims reporting and settlement period for casualty business, additional facts regarding coverages written in prior accident years, as well as about actual claims and trends may become known and, as a result, our insurance operations may be required to adjust their casualty reserves. The expected loss ratios used in the initial reserving process for our insurance operations’ casualty business for recent accident years have varied, in some cases significantly, from earlier accident years. As the credibility of historical experience for earlier accident years increases, the experience from these accident years will be given a greater weighting in the actuarial analysis to determine future accident year expected loss ratios, adjusted for changes in pricing, loss trends, terms and conditions and reinsurance structure.

In the initial reserving process for property, energy, marine and aviation business, which are primarily short-tail exposures, our insurance operations rely on a combination of the reserving methods discussed above. For catastrophe-exposed business, our insurance operations’ reserving process also includes the usage of catastrophe models for known events and a heavy reliance on analysis of individual catastrophic events and management judgment. The development of property losses can be unstable, especially for policies characterized by high severity, low frequency losses. As time passes, for a given accident year, additional weight is given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. Our insurance operations make a number of key assumptions in their reserving process, including that historical paid and reported development patterns are stable, catastrophe models provide useful information about our exposure to catastrophic events that have occurred and our underwriters’ judgment as to potential loss exposures can be relied on. The expected loss ratios used in the initial reserving process for our insurance operations’ property business have varied over time due to changes in pricing, reinsurance structure, estimates of catastrophe losses, policy changes (such as attachment points, class and limits) and geographical distribution. As losses in property lines are reported relatively quickly, expected loss ratios are selected for the current accident year based upon actual attritional loss ratios for earlier accident years, adjusted for rate changes, inflation, changes in reinsurance programs and expected attritional losses based on modeling. Due to the short-tail nature of property business, reported loss experience emerges quickly and ultimate losses are known in a reasonably short period of time.

In addition to the assumptions and development characteristics noted above for casualty and property business, our insurance operations authorize managing general agents, general agents and other producers to write program business on their behalf within prescribed underwriting authorities. This adds additional complexity to the reserving process. To monitor adherence to the underwriting guidelines given to such parties, our insurance operations periodically perform claims due diligence reviews. In the initial reserving process for program business, consisting of property and

liability exposures which are primarily written on an occurrence basis, our insurance operations primarily rely on the expected loss method. As time passes, for a given accident year, additional weight is given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. The expected loss ratios used in the initial reserving process for our insurance operations' program business have varied over time depending on the type

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of exposures written (casualty or property) and changes in pricing, loss trends, reinsurance structure and changes in the underlying business.

In the initial reserving process for executive assurance, professional liability and healthcare business, primarily consisting of medium-tail exposures written on a claims-made basis, our insurance operations primarily rely on the expected loss method. As time passes, for a given accident year, additional weight is given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. Beginning in 2005, our insurance operations began to give a relatively small amount of weight to their own experience following reviews of open claims, in particular for lines of business written on a claims-made basis for which they developed a reasonable level of credible data. Over the last few years, our insurance operations have increased their reliance on reviews of open claims. In general, the expected loss ratios established for executive assurance, professional liability and healthcare business for recent accident years vary, in some cases materially, from earlier accident years based on analysis of pricing, loss cost trends and changes in policy coverage. Since this business is primarily written on a claims-made basis and is subject to high severity, low frequency losses, a great deal of uncertainty exists in setting these initial reserves. In addition, only a limited number of years of historical experience is available for use in projecting loss experience using standard actuarial methods. As the credibility of historical experience for earlier accident years increases, the experience from these accident years will be given a greater weighting in the actuarial analysis to determine future accident year expected loss ratios, adjusted for the occurrence or lack of large losses, changes in pricing, loss trends, terms and conditions and reinsurance structure.

In the initial reserving process for construction and surety business, consisting of primary and excess casualty and contract surety coverages written on an occurrence and claims-made basis, our insurance operations primarily rely on a combination of the reserving methods discussed above. Such business is subject to the assumptions and development characteristics noted above for casualty business. As time passes, for a given accident year, additional weight has been given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. In general, the expected loss ratios used in the initial reserving process for our insurance operations' construction and surety business for recent accident years vary, in some cases materially, from earlier accident years. As the credibility of historical experience for earlier accident years has increased, the experience from these accident years has been given a greater weighting in the actuarial analysis to determine future accident year expected loss ratios, adjusted for anticipated changes in the regulatory environment, pricing, loss trends, terms and conditions and reinsurance structure.

#### Reinsurance Operations

Loss Reserves for our reinsurance operations are comprised of (1) case reserves for claims reported, (2) additional case reserves ("ACRs") and (3) IBNR reserves. Our reinsurance operations receive reports of claims notices from ceding companies and record case reserves based upon the amount of reserves recommended by the ceding company. Case reserves on known events may be supplemented by ACRs, which are often estimated by our reinsurance operations' claims personnel ahead of official notification from the ceding company, or when our reinsurance operations' judgment regarding the size or severity of the known event differs from the ceding company. In certain instances, our reinsurance operations establish ACRs even when the ceding company does not report any liability on a known event. In addition, specific claim information reported by ceding companies or obtained through claim audits can alert our reinsurance operations to emerging trends such as changing legal interpretations of coverage and liability, claims from unexpected sources or classes of business, and significant changes in the frequency or severity of individual claims. Such information is often used in the process of estimating IBNR reserves.

The estimation of Loss Reserves for our reinsurance operations is subject to the same risk factors as the estimation of Loss Reserves for our insurance operations. In addition, the inherent uncertainties of estimating such reserves are even greater for reinsurers, due primarily to the following factors: (1) the claim-tail for reinsurers is generally longer because claims are first reported to the ceding company and then to the reinsurer through one or more intermediaries, (2) the reliance on premium estimates, where reports have not been received from the ceding company, in the reserving process, (3) the potential for writing a number of reinsurance contracts with different ceding companies with the same exposure to a single loss event, (4) the diversity of loss development patterns among different types of reinsurance contracts, (5) the necessary reliance on the ceding companies for information regarding reported claims

and (6) the differing reserving practices among ceding companies.

As with our insurance operations, the process of estimating Loss Reserves for our reinsurance operations involves a considerable degree of judgment by management and, as of any given date, is inherently uncertain. As discussed above,

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such uncertainty is greater for reinsurers compared to insurers. As a result, our reinsurance operations obtain information from numerous sources to assist in the process. Pricing actuaries from our reinsurance operations devote considerable effort to understanding and analyzing a ceding company's operations and loss history during the underwriting of the business, using a combination of ceding company and industry statistics. Such statistics normally include historical premium and loss data by class of business, individual claim information for larger claims, distributions of insurance limits provided, loss reporting and payment patterns, and rate change history. This analysis is used to project expected loss ratios for each treaty during the upcoming contract period.

As mentioned above, there can be a considerable time lag from the time a claim is reported to a ceding company to the time it is reported to the reinsurer. The lag can be several years in some cases and may be attributed to a number of reasons, including the time it takes to investigate a claim, delays associated with the litigation process, the deterioration in a claimant's physical condition many years after an accident occurs, the case reserving approach of the ceding company, etc. In the reserving process, our reinsurance operations assume that such lags are predictable, on average, over time and therefore the lags are contemplated in the loss reporting patterns used in their actuarial methods. This means that our reinsurance operations must rely on estimates for a longer period of time than does an insurance company. Backlogs in the recording of assumed reinsurance can also complicate the accuracy of loss reserve estimation. As of December 31, 2014 there were no significant backlogs related to the processing of assumed reinsurance information at our reinsurance operations.

Our reinsurance operations rely heavily on information reported by ceding companies, as discussed above. In order to determine the accuracy and completeness of such information, underwriters, actuaries, and claims personnel at our reinsurance operations often perform audits of ceding companies and regularly review information received from ceding companies for unusual or unexpected results. Material findings are usually discussed with the ceding companies. Our reinsurance operations sometimes encounter situations where they determine that a claim presentation from a ceding company is not in accordance with contract terms. In these situations, our reinsurance operations attempt to resolve the dispute with the ceding company. Most situations are resolved amicably and without the need for litigation or arbitration. However, in the infrequent situations where a resolution is not possible, our reinsurance operations will vigorously defend their position in such disputes.

At December 31, 2014 and 2013, the reinsurance segment's Loss Reserves by major line of business, net of unpaid losses and loss adjustment expenses recoverable, were as follows:

	December 31,	
	2014	2013
Casualty	\$1,432,203	\$1,513,205
Other specialty	448,418	397,776
Property excluding property catastrophe	346,610	260,968
Marine and aviation	139,318	163,293
Property catastrophe	128,436	190,027
Other	55,734	60,106
Total net reserves	\$2,550,719	\$2,585,375

Any estimates and assumptions made as part of the reserving process could prove to be inaccurate due to several factors, including the fact that relatively limited historical information has been reported to our reinsurance operations through December 31, 2014 in some lines of business. See below for a discussion of the key assumptions in our reinsurance operations' reserving process.

Although Loss Reserves are initially determined based on underwriting and pricing analysis, our reinsurance operations apply several generally accepted actuarial methods, as discussed above, on a quarterly basis to evaluate their Loss Reserves in addition to the expected loss method, in particular for Loss Reserves from more mature underwriting years (the year in which business is underwritten). Each quarter, as part of the reserving process, actuaries at our reinsurance operations reaffirm that the assumptions used in the reserving process continue to form a sound basis for projection of liabilities. If actual loss activity differs substantially from expectations based on historical information, an adjustment to loss reserves may be supported. Estimated Loss Reserves for more mature underwriting years are now based more on actual loss activity and historical patterns than on the initial assumptions



based on pricing indications. More recent underwriting years rely more heavily on internal pricing assumptions. Our reinsurance operations place more or less

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reliance on a particular actuarial method based on the facts and circumstances at the time the estimates of Loss Reserves are made.

In the initial reserving process for medium-tail and long-tail lines, consisting of casualty, other specialty, marine and aviation and other exposures, our reinsurance operations primarily rely on the expected loss method. The development of medium-tail and long-tail business may be unstable, especially if there are high severity major events, with business written on an excess of loss basis typically having a longer tail than business written on a pro rata basis. As time passes, for a given underwriting year, additional weight is given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. Our reinsurance operations make a number of key assumptions in reserving for medium-tail and long-tail lines, including that the pricing loss ratio is the best estimate of the ultimate loss ratio at the time the contract is entered into, historical paid and reported development patterns are stable and our reinsurance operations' claims personnel and underwriters analyses of our exposure to major events are assumed to be our best estimate of our exposure to the known claims on those events. The expected loss ratios used in our reinsurance operations' initial reserving process for medium-tail and long-tail contracts have varied over time due to changes in pricing, terms and conditions and reinsurance structure. As the credibility of historical experience for earlier underwriting years increases, the experience from these underwriting years will be used in the actuarial analysis to determine future underwriting year expected loss ratios, adjusted for changes in pricing, loss trends, terms and conditions and reinsurance structure.

In the initial reserving process for short-tail lines, consisting of property excluding property catastrophe and property catastrophe exposures, our reinsurance operations rely on a combination of the reserving methods discussed above. For known catastrophic events, our reinsurance operations' reserving process also includes the usage of catastrophe models and a heavy reliance on analysis which includes ceding company inquiries and management judgment. The development of property losses may be unstable, especially where there is high catastrophic exposure, may be characterized by high severity, low frequency losses for excess and catastrophe-exposed business and may be highly correlated across contracts. As time passes, for a given underwriting year, additional weight is given to the paid and incurred B-F loss development methods and historical paid and incurred loss development methods in the reserving process. Our reinsurance operations make a number of key assumptions in reserving for short-tail lines, including that historical paid and reported development patterns are stable, catastrophe models provide useful information about our exposure to catastrophic events that have occurred and our underwriters' judgment and guidance received from ceding companies as to potential loss exposures may be relied on. The expected loss ratios used in the initial reserving process for our reinsurance operations' property exposures have varied over time due to changes in pricing, reinsurance structure, estimates of catastrophe losses, terms and conditions and geographical distribution. As losses in property lines are reported relatively quickly, expected loss ratios are selected for the current underwriting year incorporating the experience for earlier underwriting years, adjusted for rate changes, inflation, changes in reinsurance programs, expectations about present and future market conditions and expected attritional losses based on modeling. Due to the short-tail nature of property business, reported loss experience emerges quickly and ultimate losses are known in a reasonably short period of time.

### Mortgage Operations

Our U.S. mortgage insurance operations establish case reserves for loans that have been reported as delinquent by loan servicers as well as those that are delinquent but not reported (IBNR). Our U.S. mortgage insurance operations also reserve for the expenses of adjusting claims related to these delinquencies. The trigger that creates a reserve estimate is that an insured loan is two payments in arrears, and the date of the second missed payment is considered to be the accident date. The actuarial reviews and documentation created in the reserving process are completed in accordance with generally accepted actuarial standards. The selected assumptions reflect the actuary's judgment based on historical data and experience combined with information concerning current underwriting, economic, judicial, regulatory and other influences on ultimate claim settlements.

Because the reserving process requires our U.S. mortgage insurance operations to forecast future conditions, it is inherently uncertain and requires significant judgment and estimation. The use of different estimates would have resulted in the establishment of different reserve levels. Additionally, changes in accounting estimates are likely to occur from period to period as economic conditions change and the ultimate liability may vary significantly from the

estimates used. Major risk factors include (but are not limited to) changes in home prices and borrower equity, which can limit the borrower's ability to sell the property and satisfy the outstanding loan balance, and changes in unemployment, which can affect the borrower's income and ability to make mortgage payments.

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The lead methodology used by our U.S. mortgage insurance operations is a frequency-severity method based on the inventory of pending delinquencies. Each month the loan servicers report the delinquency status of each insured loan. Using the frequency-severity method allows our U.S. mortgage insurance operations to take advantage of its knowledge of the number of delinquent loans and the coverage provided (“risk size”) on those loans by directly relating the reserves to these amounts. The delinquencies are grouped by the year in which they were reported (“report year”). A claim rate is then developed for each report year which represents the frequency with which the delinquencies become claims. The claim rates are based on an analysis of the patterns of emerging cure counts and claim counts of the report year, the foreclosure status of the pending delinquencies, the product and geographical mix of the delinquencies and our view of future economic and claim conditions, which include trends in home prices and unemployment. Claim rates can vary materially by report year depending on the mix of delinquencies and economic conditions.

Claim size estimates are determined by examining the risk sizes on the delinquent loans and estimating the portion of risk that will be paid, as well as any expenses. This is done based on a review of historical data, an assessment of economic conditions and the level of equity the borrowers may have in their homes, as well as considering loss mitigation opportunities. Mortgage insurance is generally not subject to large claim sizes, as with some other lines of insurance. A claim size over \$250,000 is rare, and this helps reduce the volatility of claim size estimates. The claim rate and claim size assumptions generate case reserves for each report year. The reserve for unreported delinquencies (included in IBNR) is estimated by looking at historical rates of late reporting of delinquencies. Claim rates and claim sizes can then be assigned to estimated future late reported delinquencies using assumptions made in the establishment of case reserves.

Mortgage insurance reserves are short-tail, in the sense that the vast majority of delinquencies are resolved within two years of being reported. While reserves are initially analyzed by report year, they are also rolled up by underwriting year to ensure that reserve assumptions are consistent with the performance of the underwriting year. The accuracy of prior reserve assumptions is also checked in hindsight to determine if adjustments are needed.

The following table provides supplemental disclosures for our U.S. mortgage insurance operations related to insured loans and loss metrics:

(U.S. Dollars in thousands, except loan count)	Three Months Ended				Year Ended	
	December 31, 2014	September 30, 2014	June 30, 2014	March 31, 2014 (1)	December 31, 2014 (1)	
Rollforward of insured loans in default:						
Beginning delinquent number of loans	3,625	3,641	3,858	4,469	4,469	
Plus: new notices	1,402	1,553	1,377	1,458	5,790	
Less: cures	(1,202 )	(1,168 )	(1,202 )	(1,635 )	(5,207 )	
Less: paid claims	(351 )	(397 )	(383 )	(429 )	(1,560 )	
Less: delinquent rescissions and denials	—	(4 )	(9 )	(5 )	(18 )	
Ending delinquent number of loans	3,474	3,625	3,641	3,858	3,474	
Ending percentage of loans in default	2.6	% 2.8	% 2.9	% 3.0	%	
Losses:						
Number of claims paid	351	397	383	429	1,560	
Total paid claims	\$15,358	\$17,093	\$16,190	\$18,117	\$66,758	
Average per claim	\$43.8	\$43.1	\$42.3	\$42.2	\$42.8	
Severity (2)	99.2	% 93.7	% 93.0	% 97.4	% 96.3	%
Average reserve per default	\$27.5	\$27.1	\$28.1	\$27.5		

- (1) Includes activity for January 2014 for comparability purposes (pre-acquisition date).
- (2) Represents total paid claims divided by RIF of loans for which claims were paid.

Loss Reserves for our mortgage operations' reinsurance business are comprised of (1) case reserves for claims reported and (2) IBNR reserves. Our mortgage reinsurance operations receive reports of delinquent loans and claims notices from ceding companies and record case reserves based upon the amount of reserves recommended by the ceding company. In addition, specific claim and delinquency information reported by ceding companies is used in the process of estimating IBNR reserves.

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## Other Operations

Loss Reserves for Watford Re are comprised of case reserves and IBNR losses. For all business assumed by Watford Re, we act as reinsurance underwriting manager, provide actuarial and risk management services and recommend a level of Loss Reserves to Watford Re. The estimation of Loss Reserves for Watford Re is subject to the same risk factors as the estimation of Loss Reserves for our underwriting operations as described earlier. Watford Re performs its own reserve reviews and sets its Loss Reserves independently.

## Potential Variability in Loss Reserves

The tables below summarize the effect of reasonably likely scenarios on the key actuarial assumptions used to estimate our Loss Reserves, net of unpaid losses and loss adjustment expenses recoverable, at December 31, 2014 by underwriting segment (excluding the 'other' segment). The scenarios shown in the tables summarize the effect of (i) changes to the expected loss ratio selections used at December 31, 2014, which represent loss ratio point increases or decreases to the expected loss ratios used, and (ii) changes to the loss development patterns used in our reserving process at December 31, 2014, which represent claims reporting that is either slower or faster than the reporting patterns used. We believe that the illustrated sensitivities are indicative of the potential variability inherent in the estimation process of those parameters. The results show the impact of varying each key actuarial assumption using the chosen sensitivity on our IBNR reserves, on a net basis and across all accident years.

INSURANCE SEGMENT	Higher Expected Loss Ratios	Slower Loss Development Patterns	Lower Expected Loss Ratios	Faster Loss Development Patterns
Reserving lines selected assumptions:				
Property, energy, marine and aviation	5 points	3 months	(5) points	(3) months
Third party occurrence business (1)	10	6	(10)	(6)
Third party claims-made business (2)	10	6	(10)	(6)
All other (3)	10	6	(10)	(6)
Increase (decrease) in Loss Reserves, net:				
Property, energy, marine and aviation	\$21,491	\$27,237	\$(21,491)	\$(19,277)
Third party occurrence business (1)	185,228	98,986	(185,228)	(95,160)
Third party claims-made business (2)	120,501	144,579	(120,501)	(113,507)
All other (3)	110,901	115,238	(110,901)	(91,532)

(1) Third party occurrence business includes casualty, construction, national accounts and excess workers' compensation business.

(2) Third party claims-made business includes executive assurance, healthcare and professional liability business.

(3) All other includes programs, surety, lenders products, travel and accident and other business.

REINSURANCE SEGMENT	Higher Expected Loss Ratios	Slower Loss Development Patterns	Lower Expected Loss Ratios	Faster Loss Development Patterns
Reserving lines selected assumptions:				
Casualty	10 points	6 months	(10) points	(6) months
Other specialty	5	3	(5)	(3)
Property excluding property catastrophe	5	3	(5)	(3)
Property catastrophe	5	3	(5)	(3)
Marine and aviation	5	3	(5)	(3)
Other	5	3	(5)	(3)
Increase (decrease) in Loss Reserves, net:				
Casualty	\$121,748	\$127,281	\$(121,748)	\$(101,919)
Other specialty	45,619	27,684	(45,619)	(41,441)
Property excluding property catastrophe	12,932	29,601	(12,932)	(28,304)

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Marine and aviation	7,298	10,829	(7,298	) (11,032	)
Property catastrophe	11,610	18,644	(11,610	) (13,029	)
Other	3,343	1,596	(3,343	) (1,511	)

It is not necessarily appropriate to sum the total impact for a specific factor or the total impact for a specific business category as the business categories are not perfectly correlated. In addition, the potential variability shown in the tables

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above are reasonably likely scenarios of changes in our key assumptions at December 31, 2014 and are not meant to be a “best case” or “worst case” series of outcomes and, therefore, it is possible that future variations may be more or less than the amounts set forth above.

For our mortgage segment, we considered the sensitivity of loss reserve estimates at December 31, 2014 by assessing the potential changes resulting from a parallel shift in severity and default to claim rate. For example, assuming all other factors remain constant, for every one percentage point change in primary claim severity (which we estimate to be 27% of unpaid principal balance at December 31, 2014), we estimated that our loss reserves would change by approximately \$4 million at December 31, 2014. For every one percentage point change in our overall net default to claim rate (which we estimate to be approximately 53% at December 31, 2014), we estimated a \$2 million change in our loss reserves at December 31, 2014.

**Simulation Results**

In order to illustrate the potential volatility in our Loss Reserves, we used a Monte Carlo simulation approach to simulate a range of results based on various probabilities. Both the probabilities and related modeling are subject to inherent uncertainties. The simulation relies on a significant number of assumptions, such as the potential for multiple entities to react similarly to external events, and includes other statistical assumptions. At December 31, 2014, our recorded Loss Reserves by underwriting segment, net of unpaid losses and loss adjustment expenses recoverable, and the results of the simulation were as follows:

	December 31, 2014			
	Insurance	Reinsurance	Mortgage	Total
Total net reserves (1)	\$4,526,002	\$2,550,719	\$117,801	\$7,194,522
Simulation results:				
90th percentile (2)	\$5,441,906	\$3,210,732	\$141,019	\$8,469,190
10th percentile (3)	\$3,681,503	\$1,972,965	\$96,193	\$6,018,955

(1) Excludes amounts reflected in the ‘other’ segment.

(2) Simulation results indicate that a 90% probability exists that the net reserves for losses and loss adjustment expenses will not exceed the indicated amount.

(3) Simulation results indicate that a 10% probability exists that the net reserves for losses and loss adjustment expenses will be at or below the indicated amount.

The simulation results shown for each segment do not add to the total simulation results, as the individual segment simulation results do not reflect the diversification effects across our segments. For informational purposes, based on the total simulation results, a change in our Loss Reserves to the amount indicated at the 90th percentile would result in a decrease in income before income taxes of approximately \$1.27 billion, or \$9.45 per diluted share, while a change in our Loss Reserves to the amount indicated at the 10th percentile would result in an increase in income before income taxes of approximately \$1.18 billion, or \$8.71 per diluted share. The simulation results noted above are informational only, and no assurance can be given that our ultimate losses will not be significantly different than the simulation results shown above, and such differences could directly and significantly impact earnings favorably or unfavorably in the period they are determined. We do not have significant exposure to pre-2002 liabilities, such as asbestos-related illnesses and other long-tail liabilities. It is difficult to provide meaningful trend information for certain liability/casualty coverages for which the claim-tail may be especially long, as claims are often reported and ultimately paid or settled years, or even decades, after the related loss events occur. Any estimates and assumptions made as part of the reserving process could prove to be inaccurate due to several factors, including the fact that relatively limited historical information has been reported to us through December 31, 2014.

**Mortgage Operations Supplemental Information**

For each quarter end in 2014, the mortgage segment’s insurance in force (“IIF”), which represents the aggregate dollar amount of each insured mortgage loan’s original principal balance, and risk in force (“RIF”), which represents the aggregate dollar amount of each insured mortgage loan’s current principal balance multiplied by the insurance coverage percentage specified in the policy for insurance policies issued, are shown on the following table.





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(U.S. Dollars in millions)	December 31, 2014		September 30, 2014		June 30, 2014		March 31, 2014	
	Amount	%	Amount	%	Amount	%	Amount	%
<b>Insurance In Force (IIF):</b>								
U.S. mortgage insurance	\$22,402	47	\$22,055	46	\$21,168	45	\$21,240	47
Mortgage reinsurance	20,772	44	21,097	44	21,405	45	21,161	47
Other (1)	4,400	9	4,464	10	4,586	10	2,869	6
<b>Total</b>	<b>\$47,574</b>	<b>100</b>	<b>\$47,616</b>	<b>100</b>	<b>\$47,159</b>	<b>100</b>	<b>\$45,270</b>	<b>100</b>
<b>Risk In Force (RIF) (2):</b>								
U.S. mortgage insurance	\$5,600	56	\$5,506	55	\$5,273	53	\$5,275	53
Mortgage reinsurance	4,393	43	4,483	44	4,601	46	4,664	46
Other (1)	136	1	136	1	139	1	80	1
<b>Total</b>	<b>\$10,129</b>	<b>100</b>	<b>\$10,125</b>	<b>100</b>	<b>\$10,013</b>	<b>100</b>	<b>\$10,019</b>	<b>100</b>
Ending number of policies in force	131,111		129,665		126,347		127,019	

(1) Includes risk-sharing products offered to government sponsored enterprises and mortgage lenders and international insurance business.

For international business and risk-sharing products, the calculation is based on the maximum claim amount which (2) we are exposed to on each insured mortgage loan. For certain of our mortgage reinsurance treaties, such amount incorporates loss ratio caps.

For each quarter end in 2014, the following table provides supplemental disclosures for our U.S. mortgage insurance operations' risk in force:

(U.S. Dollars in millions)	December 31, 2014		September 30, 2014		June 30, 2014		March 31, 2014	
	Amount	%	Amount	%	Amount	%	Amount	%
<b>Total RIF by credit quality (FICO):</b>								
>=740	\$2,917	52	\$2,864	52	\$2,687	51	\$2,671	51
680-739	1,846	33	1,803	33	1,724	33	1,713	32
620-679	700	13	694	12	709	13	731	14
<620	137	2	145	3	153	3	160	3
<b>Total</b>	<b>\$5,600</b>	<b>100</b>	<b>\$5,506</b>	<b>100</b>	<b>\$5,273</b>	<b>100</b>	<b>\$5,275</b>	<b>100</b>
Weighted average FICO score	733		733		731		730	
<b>Total RIF by LTV:</b>								
95.01% and above	\$1,123	20	\$1,139	21	\$1,161	22	\$1,183	23
90.01% to 95.00%	2,652	47	2,558	46	2,389	45	2,337	44
85.01% to 90.00%	1,552	28	1,544	28	1,474	28	1,494	28
85.00% and below	273	5	265	5	249	5	261	5
<b>Total</b>	<b>\$5,600</b>	<b>100</b>	<b>\$5,506</b>	<b>100</b>	<b>\$5,273</b>	<b>100</b>	<b>\$5,275</b>	<b>100</b>
Weighted average LTV	93.4	%	93.4	%	93.4	%	93.4	%
<b>Total RIF by State:</b>								
Wisconsin	\$538	10	\$532	10	\$517	10	\$510	10
California	480	9	474	9	454	9	460	9
Texas	302	5	293	5	283	5	285	5
Minnesota	274	5	271	5	258	5	255	5
Florida	273	5	271	5	264	5	268	5

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Washington	232	4	231	4	228	4	230	4
Massachusetts	210	4	209	4	204	4	203	4
Alaska	209	4	207	4	202	4	201	4
Virginia	200	3	196	3	186	4	185	3
New York	188	3	188	3	184	3	186	4
Others	2,694	48	2,634	48	2,493	47	2,492	47
Total	\$5,600	100	\$5,506	100	\$5,273	100	\$5,275	100
Weighted average coverage (1)	25.0	%	25.0	%	24.9	%	24.8	%
Analysts' persistency (2)	80.9	%	81.2	%	80.5	%	79.1	%
Risk-to-capital ratio (3)	9.5:1		9.3:1		8.9:1		9.0:1	

(1) Represents the end of period RIF divided by end of period IIF.

(2) Represents the percentage of IIF at the beginning of a 12-month period that remained in force at the end of the period.

(3) Represents total current (non-delinquent) RIF, net of reinsurance, divided by total statutory capital. Ratio calculated for Arch Mortgage Insurance Company only (estimate for December 31, 2014).

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### Ceded Reinsurance

In the normal course of business, our insurance operations cede a portion of their premium on a quota share or excess of loss basis through treaty or facultative reinsurance agreements. Our reinsurance operations also obtain reinsurance whereby another reinsurer contractually agrees to indemnify it for all or a portion of the reinsurance risks underwritten by our reinsurance operations. Such arrangements, where one reinsurer provides reinsurance to another reinsurer, are usually referred to as “retrocessional reinsurance” arrangements. In addition, our reinsurance subsidiaries participate in “common account” retrocessional arrangements for certain pro rata treaties. Such arrangements reduce the effect of individual or aggregate losses to all companies participating on such treaties, including the reinsurers, such as our reinsurance operations, and the ceding company. Reinsurance recoverables are recorded as assets, predicated on the reinsurers’ ability to meet their obligations under the reinsurance agreements. If the reinsurers are unable to satisfy their obligations under the agreements, our insurance or reinsurance operations would be liable for such defaulted amounts.

The availability and cost of reinsurance and retrocessional protection is subject to market conditions, which are beyond our control. Although we believe that our insurance and reinsurance operations have been successful in obtaining reinsurance and retrocessional protection, it is not certain that they will be able to continue to obtain adequate protection at cost effective levels. As a result of such market conditions and other factors, our insurance and reinsurance operations may not be able to successfully mitigate risk through reinsurance and retrocessional arrangements and may lead to increased volatility in our results of operations in future periods. See “Risk Factors—Risks Relating to Our Industry—The failure of any of the loss limitation methods we employ could have a material adverse effect on our financial condition or results of operations.”

Our insurance operations had in effect during 2014 a reinsurance program which provided coverage for certain property-catastrophe related losses equal to \$200 million in excess of a \$150 million retention per occurrence, consistent with the program in place for 2013. In the 2015 first quarter, our insurance operations renewed its reinsurance program with the same limits.

For purposes of managing risk, we reinsure a portion of our exposures, paying to reinsurers a part of the premiums received on the policies we write, and we may also use retrocessional protection. On a consolidated basis, ceded premiums written represented approximately 20% of gross premiums written for 2014, compared to 20% for 2013 and 21% for 2012. We monitor the financial condition of our reinsurers and attempt to place coverages only with substantial, financially sound carriers. If the financial condition of our reinsurers or retrocessionaires deteriorates, resulting in an impairment of their ability to make payments, we will provide for probable losses resulting from our inability to collect amounts due from such parties, as appropriate. We evaluate the credit worthiness of all the reinsurers to which we cede business. If our analysis indicates that there is significant uncertainty regarding our ability to collect amounts due from reinsurers, managing general agents, brokers and other clients, we will record a provision for doubtful accounts. See “Risk Factors—Risks Relating to Our Company—We are exposed to credit risk in certain of our business operations” and “Financial Condition, Liquidity and Capital Resources—Financial Condition—Premiums Receivable and Reinsurance Recoverables” for further details.

### Premium Revenues and Related Expenses

Insurance premiums written are generally recorded at the policy inception and are primarily earned on a pro rata basis over the terms of the policies for all products, usually 12 months. Premiums written include estimates in our insurance operations’ programs, specialty lines, collateral protection business and for participation in involuntary pools. The amount of such insurance premium estimates, included in premiums receivable and other assets, was \$88.0 million at December 31, 2014, compared to \$53.5 million at December 31, 2013. Such premium estimates are derived from multiple sources which include the historical experience of the underlying business, similar business and available industry information. Unearned premium reserves represent the portion of premiums written that relates to the unexpired terms of in-force insurance policies.

Reinsurance premiums written include amounts reported by brokers and ceding companies, supplemented by our own estimates of premiums where reports have not been received. The determination of premium estimates requires a review of our experience with the ceding companies, familiarity with each market, the timing of the reported

information, an analysis and understanding of the characteristics of each line of business, and management's judgment of the impact of various factors, including premium or loss trends, on the volume of business written and ceded to us. On an ongoing basis, our underwriters review the amounts reported by these third parties for reasonableness based on their experience and

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knowledge of the subject class of business, taking into account our historical experience with the brokers or ceding companies. In addition, reinsurance contracts under which we assume business generally contain specific provisions which allow us to perform audits of the ceding company to ensure compliance with the terms and conditions of the contract, including accurate and timely reporting of information. Based on a review of all available information, management establishes premium estimates where reports have not been received. Premium estimates are updated when new information is received and differences between such estimates and actual amounts are recorded in the period in which estimates are changed or the actual amounts are determined. Premiums written are recorded based on the type of contracts we write. Premiums on our excess of loss and pro rata reinsurance contracts are estimated when the business is underwritten. For excess of loss contracts, premiums are recorded as written based on the terms of the contract. Estimates of premiums written under pro rata contracts are recorded in the period in which the underlying risks incept and are based on information provided by the brokers and the ceding companies. For multi-year reinsurance treaties which are payable in annual installments, generally, only the initial annual installment is included as premiums written at policy inception due to the ability of the reinsured to commute or cancel coverage during the term of the policy. The remaining annual installments are included as premiums written at each successive anniversary date within the multi-year term.

Reinstatement premiums for our insurance and reinsurance operations are recognized at the time a loss event occurs, where coverage limits for the remaining life of the contract are reinstated under pre-defined contract terms.

Reinstatement premiums, if obligatory, are fully earned when recognized. The accrual of reinstatement premiums is based on an estimate of losses and loss adjustment expenses, which reflects management's judgment, as described above in "—Reserves for Losses and Loss Adjustment Expenses."

The amount of reinsurance premium estimates included in premiums receivable and the amount of related acquisition expenses by type of business were as follows at December 31, 2014 and 2013:

	December 31, 2014			December 31, 2013		
	Gross Amount	Acquisition Expenses	Net Amount	Gross Amount	Acquisition Expenses	Net Amount
Casualty	\$142,071	\$(45,193)	) \$96,878	\$72,130	\$(16,660)	) \$55,470
Other specialty	116,719	(28,881)	) 87,838	112,235	(31,196)	) 81,039
Property excluding property catastrophe	39,874	(10,533)	) 29,341	41,573	(11,296)	) 30,277
Marine and aviation	36,940	(9,762)	) 27,178	48,603	(13,262)	) 35,341
Property catastrophe	1,257	(71)	) 1,186	1,349	(71)	) 1,278
Other	21,425	(6,346)	) 15,079	16,382	(5,010)	) 11,372
Total	\$358,286	\$(100,786)	) \$257,500	\$292,272	\$(77,495)	) \$214,777

Premium estimates are reviewed by management at least quarterly. Such review includes a comparison of actual reported premiums to expected ultimate premiums along with a review of the aging and collection of premium estimates. Based on management's review, the appropriateness of the premium estimates is evaluated, and any adjustment to these estimates is recorded in the period in which it becomes known. Adjustments to premium estimates could be material and such adjustments could directly and significantly impact earnings favorably or unfavorably in the period they are determined because the estimated premium may be fully or substantially earned.

A significant portion of amounts included as premiums receivable, which represent estimated premiums written, net of commissions, are not currently due based on the terms of the underlying contracts. Based on currently available information, management believes that the premium estimates included in premiums receivable will be collectible and, therefore, no provision for doubtful accounts has been recorded on the premium estimates at December 31, 2014.

Reinsurance premiums assumed, irrespective of the class of business, are generally earned on a pro rata basis over the terms of the underlying policies or reinsurance contracts. Contracts and policies written on a “losses occurring” basis cover claims that may occur during the term of the contract or policy, which is typically 12 months. Accordingly, the premium is earned evenly over the term. Contracts which are written on a “risks attaching” basis cover claims which attach to the underlying insurance policies written during the terms of such contracts. Premiums earned on such contracts usually extend beyond the original term of the reinsurance contract, typically resulting in recognition of premiums earned over a 24-month period.

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Certain of our reinsurance contracts include provisions that adjust premiums or acquisition expenses based upon the experience under the contracts. Premiums written and earned, as well as related acquisition expenses, are recorded based upon the projected experience under such contracts.

Retroactive reinsurance reimburses a ceding company for liabilities incurred as a result of past insurable events covered by the underlying policies reinsured. In certain instances, reinsurance contracts cover losses both on a prospective basis and on a retroactive basis and, accordingly, we bifurcate the prospective and retrospective elements of these reinsurance contracts and account for each element separately. Underwriting income generated in connection with retroactive reinsurance contracts is deferred and amortized into income over the settlement period while losses are charged to income immediately. Subsequent changes in estimated or actual cash flows under such retroactive reinsurance contracts are accounted for by adjusting the previously deferred amount to the balance that would have existed had the revised estimate been available at the inception of the reinsurance transaction, with a corresponding charge or credit to income.

Mortgage guaranty insurance policies are contracts that are generally non-cancelable by the insurer, are renewable at a fixed price, and provide for payment of premiums on a monthly, annual or single basis. Upon renewal, we are not able to re-underwrite or re-price our policies. Consistent with industry accounting practices, premiums written on a monthly basis are earned as coverage is provided. Premiums written on an annual basis are amortized on a monthly pro rata basis over the year of coverage. Primary mortgage insurance premiums written on policies covering more than one year are referred to as single premiums. A portion of the revenue from single premiums is recognized in premiums earned in the current period, and the remaining portion is deferred as unearned premiums and earned over the estimated expiration of risk of the policy. If single premium policies related to insured loans are canceled due to repayment by the borrower and the policy is a non-refundable product, the remaining unearned premium related to each canceled policy is recognized as earned premium upon notification of the cancellation.

Unearned premiums represent the portion of premiums written that is applicable to the estimated unexpired risk of insured loans. A portion of premium payments may be refundable if the insured cancels coverage, which generally occurs when the loan is repaid, the loan amortizes to a sufficiently low amount to trigger a lender permitted or legally required cancellation, or the value of the property has increased sufficiently in accordance with the terms of the contract. Premium refunds reduce premiums earned in the consolidated statements of income. Generally, only unearned premiums are refundable. However, when we pay a claim on a delinquent loan, all servicer paid premiums received on the delinquent loan covering any period after the default date will be refunded, in accordance with the terms of the contract.

Acquisition expenses and other expenses related to our underwriting operations that vary with, and are directly related to, the successful acquisition or renewal of business are deferred and amortized based on the type of contract. For property and casualty insurance and reinsurance contracts, deferred acquisition costs are amortized over the period in which the related premiums are earned. Consistent with mortgage insurance industry accounting practice, amortization of acquisition costs related to the mortgage insurance contracts for each underwriting year's book of business is recorded in proportion to estimated gross profits. Estimated gross profits are comprised of earned premiums and losses and loss adjustment expenses. For each underwriting year, we estimate the rate of amortization to reflect actual experience and any changes to persistency or loss development.

Acquisition expenses, net of ceding commissions received from reinsurers, consist principally of commissions and premium taxes paid to obtain our business. Other operating expenses also include expenses that vary with, and are directly related to, the successful acquisition of business. Deferred acquisition costs are carried at their estimated realizable value and take into account anticipated losses and loss adjustment expenses, based on historical and current experience, and anticipated investment income.

A premium deficiency occurs if the sum of anticipated losses and loss adjustment expenses, unamortized acquisition costs and maintenance costs and anticipated investment income exceed unearned premiums. A premium deficiency reserve ("PDR") is recorded by charging any unamortized acquisition costs to expense to the extent required in order to eliminate the deficiency. If the premium deficiency exceeds unamortized acquisition costs then a liability is accrued for the excess deficiency.



To assess the need for a PDR on our mortgage exposures, we develop loss projections based on modeled loan defaults related to our current policies in force. This projection is based on recent trends in default experience, severity and rates of defaulted loans moving to claim, as well as recent trends in the rate at which loans are prepaid. Evaluating the expected profitability of our existing mortgage insurance business and the need for a PDR for our mortgage business involves

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significant reliance upon assumptions and estimates with regard to the likelihood, magnitude and timing of potential losses and premium revenues. The models, assumptions and estimates we use to evaluate the need for a PDR may prove to be inaccurate, especially during an extended economic downturn or a period of extreme market volatility and uncertainty.

No premium deficiency charges were recorded by us during 2014, 2013 and 2012.

### Fair Value Measurements

Accounting guidance regarding fair value measurements addresses how companies should measure fair value when they are required to use a fair value measure for recognition or disclosure purposes under GAAP and provides a common definition of fair value to be used throughout GAAP. It defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly fashion between market participants at the measurement date. In addition, it establishes a three-level valuation hierarchy for the disclosure of fair value measurements. The valuation hierarchy is based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date. The level in the hierarchy within which a given fair value measurement falls is determined based on the lowest level input that is significant to the measurement (Level 1 being the highest priority and Level 3 being the lowest priority).

We determine the existence of an active market based on our judgment as to whether transactions for the financial instrument occur in such market with sufficient frequency and volume to provide reliable pricing information. The independent pricing sources obtain market quotations and actual transaction prices for securities that have quoted prices in active markets. We use quoted values and other data provided by nationally recognized independent pricing sources as inputs into our process for determining fair values of our fixed maturity investments. To validate the techniques or models used by pricing sources, our review process includes, but is not limited to: (i) quantitative analysis (e.g., comparing the quarterly return for each managed portfolio to their target benchmark, with significant differences identified and investigated); (ii) a review of the average number of prices obtained in the pricing process and the range of resulting fair values; (iii) initial and ongoing evaluation of methodologies used by outside parties to calculate fair value; (iv) comparing the fair value estimates to our knowledge of the current market; (v) a comparison of the pricing services' fair values to other pricing services' fair values for the same investments; and (vi) back-testing, which includes randomly selecting purchased or sold securities and comparing the executed prices to the fair value estimates from the pricing service. Where multiple quotes or prices were obtained, a price source hierarchy was maintained in order to determine which price source would be used (i.e., a price obtained from a pricing service with more seniority in the hierarchy will be used from a less senior one in all cases). The hierarchy prioritizes pricing services based on availability and reliability and assigns the highest priority to index providers. Based on the above review, we will challenge any prices for a security or portfolio which are considered not to be representative of fair value.

The independent pricing sources obtain market quotations and actual transaction prices for securities that have quoted prices in active markets. Each source has its own proprietary method for determining the fair value of securities that are not actively traded. In general, these methods involve the use of "matrix pricing" in which the independent pricing source uses observable market inputs including, but not limited to, investment yields, credit risks and spreads, benchmarking of like securities, broker-dealer quotes, reported trades and sector groupings to determine a reasonable fair value. In addition, pricing vendors use model processes, such as an Option Adjusted Spread model, to develop prepayment and interest rate scenarios. The Option Adjusted Spread model is commonly used to estimate fair value for securities such as mortgage backed and asset backed securities. In certain circumstances, when fair values are unavailable from these independent pricing sources, quotes are obtained directly from broker-dealers who are active in the corresponding markets. Such quotes are subject to the validation procedures noted above. Of the \$15.1 billion of financial assets and liabilities measured at fair value at December 31, 2014, approximately \$260.8 million, or 1.7%, were priced using non-binding broker-dealer quotes. Of the \$13.4 billion of financial assets and liabilities measured at fair value at December 31, 2013, approximately \$601.9 million, or 4.5%, were priced using non-binding broker-dealer quotes.

We review our securities measured at fair value and discuss the proper classification of such investments with investment advisors and others. See note 9, "Fair Value," of the notes accompanying our consolidated financial

statements for a summary of our financial assets and liabilities measured at fair value at December 31, 2014 by valuation hierarchy.

**Other-Than-Temporary Impairments**

On a quarterly basis, we perform reviews of our investments to determine whether declines in fair value below the cost basis are considered other-than-temporary in accordance with applicable accounting guidance regarding the

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recognition and presentation of OTTI. The process of determining whether a security is other-than-temporarily impaired requires judgment and involves analyzing many factors. These factors include (i) an analysis of the liquidity, business prospects and overall financial condition of the issuer, (ii) the time period in which there was a significant decline in value, (iii) the significance of the decline, and (iv) the analysis of specific credit events.

We evaluate the unrealized losses of our equity securities by issuer and determine if we can forecast a reasonable period of time by which the fair value of the securities would increase and we would recover our cost. If we are unable to forecast a reasonable period of time in which to recover the cost of our equity securities, we record an OTTI equivalent to the entire unrealized loss. For debt securities, we separate an OTTI into two components when there are credit related losses associated with the impaired debt security for which we assert that we do not have the intent to sell the security, and it is more likely than not that we will not be required to sell the security before recovery of its cost basis. The amount of the OTTI related to a credit loss is recognized in earnings, and the amount of the OTTI related to other factors (e.g., interest rates, market conditions, etc.) is recorded as a component of other comprehensive income or loss. The amount of the credit loss of an impaired debt security is the difference between the amortized cost and the greater of (i) the present value of expected future cash flows and (ii) the fair value of the security. In instances where no credit loss exists but it is more likely than not that we will have to sell the debt security prior to the anticipated recovery, the decline in fair value below amortized cost is recognized as an OTTI in earnings. In periods after the recognition of an OTTI on debt securities, we account for such securities as if they had been purchased on the measurement date of the OTTI at an amortized cost basis equal to the previous amortized cost basis less the OTTI recognized in earnings. For debt securities for which OTTI were recognized in earnings, the difference between the new amortized cost basis and the cash flows expected to be collected will be accreted or amortized into net investment income.

For 2014, we recorded \$30.2 million of credit related impairments in earnings, compared to \$3.8 million in 2013 and \$11.4 million in 2012. See note 8, “Investment Information—Other-Than-Temporary Impairments,” of the notes accompanying our consolidated financial statements for additional information.

**Reclassifications**

We have reclassified the presentation of certain prior year information to conform to the current presentation. Such reclassifications had no effect on our net income, shareholders’ equity or cash flows.

**Recent Accounting Pronouncements**

See note 3(q), “Significant Accounting Policies—Recent Accounting Pronouncements,” of the notes accompanying our consolidated financial statements.

**FINANCIAL CONDITION, LIQUIDITY AND CAPITAL RESOURCES**

**Financial Condition**

**Investable Assets Managed by Arch**

The finance and investment committee of our board of directors establishes our investment policies and sets the parameters for creating guidelines for our investment managers. The finance and investment committee reviews the implementation of the investment strategy on a regular basis. Our current approach stresses preservation of capital, market liquidity and diversification of risk. While maintaining our emphasis on preservation of capital and liquidity, we expect our portfolio to become more diversified and, as a result, we may expand into areas which are not currently part of our investment strategy. Our Chief Investment Officer administers the investment portfolio, oversees our investment managers, formulates investment strategy in conjunction with our finance and investment committee and directly manages certain portions of our fixed income and equity portfolios.

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At December 31, 2014, total investable assets of \$15.77 billion included \$14.61 billion managed by Arch and \$1.16 billion included in the ‘other’ segment (i.e., attributable to Watford Re), summarized as follows:

	December 31, 2014		December 31, 2013	
	Amount	% of Total	Amount	% of Total
Investable assets (1) (2):				
Fixed maturities available for sale, at fair value	\$10,750,770	73.6	\$9,571,776	68.1
Fixed maturities, at fair value (3)	377,053	2.6	448,254	3.2
Fixed maturities pledged under securities lending agreements, at fair value	50,802	0.3	105,081	0.8
Total fixed maturities	11,178,625	76.5	10,125,111	72.1
Short-term investments available for sale, at fair value	797,226	5.5	1,478,367	10.5
Cash	474,247	3.2	434,057	3.1
Equity securities available for sale, at fair value	658,182	4.5	496,824	3.5
Other investments available for sale, at fair value	296,224	2.0	498,310	3.6
Other investments, at fair value (3)	889,253	6.1	773,280	5.5
Investments accounted for using the equity method (4)	349,014	2.4	244,339	1.7
Securities transactions entered into but not settled at the balance sheet date	(32,802 )	(0.2 )	(763 )	—
Total investable assets managed by Arch	\$14,609,969	100.0	\$14,049,525	100.0

(1) The table above excludes investable assets attributable to the ‘other’ segment. Such amounts are summarized as follows:

(U.S. dollars in thousands)	December 31, 2014
Investable assets in ‘other’ segment:	
Cash	\$11,455
Investments accounted for using the fair value option (3)	1,169,226
Securities transactions entered into but not settled at the balance sheet date	(17,441 )
Total investable assets included in ‘other’ segment	\$1,163,240

(2) This table excludes the collateral received and reinvested and includes the fixed maturities and short-term investments pledged under securities lending agreements, at fair value.

Represents investments which are carried at fair value under the fair value option and reflected as “investments (3) accounted for using the fair value option” on our balance sheet. Changes in the carrying value of such investments are recorded in net realized gains or losses.

Changes in the carrying value of investment funds accounted for using the equity method are recorded as “equity in (4) net income (loss) of investment funds accounted for using the equity method” rather than as an unrealized gain or loss component of accumulated other comprehensive income.

At December 31, 2014, our fixed income portfolio, which includes fixed maturity securities and short-term investments, had average credit quality ratings from S&P/Moody’s of “AA/Aa2” and an average yield to maturity (embedded book yield), before investment expenses, of 2.18%. At December 31, 2013, our fixed income portfolio had average credit quality ratings from S&P/Moody’s of “AA-/Aa2” and an average yield to maturity (embedded book yield), before investment expenses, of 2.38%. Our investment portfolio had an average effective duration of 3.34 years at December 31, 2014, compared to 2.62 years at December 31, 2013. At December 31, 2014, approximately \$9.87 billion, or 68%, of our total investments and cash was internally managed, compared to \$9.07 billion, or 65%, at

December 31, 2013.

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The following table summarizes our fixed maturities and fixed maturities pledged under securities lending agreements (“Fixed Maturities”) by type:

	Fair Value	Gross Unrealized Gains	Gross Unrealized Losses	Cost or Amortized Cost
December 31, 2014				
Corporate bonds	\$3,379,139	\$37,928	\$(38,974)	\$3,380,185
Mortgage backed securities	965,533	18,843	(3,842)	950,532
Municipal bonds	1,494,122	31,227	(1,044)	1,463,939
Commercial mortgage backed securities	1,114,528	14,594	(3,822)	1,103,756
U.S. government and government agencies	1,447,972	8,345	(1,760)	1,441,387
Non-U.S. government securities	1,099,390	21,311	(37,203)	1,115,282
Asset backed securities	1,677,941	8,425	(6,089)	1,675,605
Total	\$11,178,625	\$140,673	\$(92,734)	\$11,130,686
December 31, 2013				
Corporate bonds	\$2,601,328	\$35,289	\$(35,537)	\$2,601,576
Mortgage backed securities	1,174,128	16,270	(22,209)	1,180,067
Municipal bonds	1,481,738	29,378	(9,730)	1,462,090
Commercial mortgage backed securities	1,074,497	13,972	(15,224)	1,075,749
U.S. government and government agencies	1,301,809	3,779	(11,242)	1,309,272
Non-U.S. government securities	1,159,017	14,729	(19,363)	1,163,651
Asset backed securities	1,332,594	20,033	(13,795)	1,326,356
Total	\$10,125,111	\$133,450	\$(127,100)	\$10,118,761

The following table provides the credit quality distribution of our Fixed Maturities:

Rating (1)	December 31, 2014		December 31, 2013	
	Fair Value	% of Total	Fair Value	% of Total
U.S. government and government agencies (2)	\$2,245,489	20.1	\$2,284,053	22.6
AAA	4,299,060	38.5	3,709,872	36.6
AA	1,917,392	17.2	1,720,605	17.0
A	1,739,922	15.6	1,359,193	13.4
BBB	339,395	3.0	304,543	3.0
BB	157,232	1.4	180,125	1.8
B	184,869	1.7	188,119	1.9
Lower than B	154,823	1.4	241,463	2.4
Not rated	140,443	1.1	137,138	1.3
Total	\$11,178,625	100.0	\$10,125,111	100.0

(1) For individual fixed maturities, S&P ratings are used. In the absence of an S&P rating, ratings from Moody’s are used, followed by ratings from Fitch Ratings.

(2) Includes U.S. government-sponsored agency mortgage backed securities and agency commercial mortgage backed securities.





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At December 31, 2014, below-investment grade securities comprised approximately 5.7% of our Fixed Maturities, compared to 7.4% at December 31, 2013. In accordance with our investment strategy, we invest in high yield fixed income securities which are included in "Corporate bonds." Upon issuance, these securities are typically rated below investment grade (i.e., rating assigned by the major rating agencies of "BB+" or less). At December 31, 2014, corporate bonds represented 69% of the total below investment grade securities at fair value, mortgage backed securities represented 22% of the total and 9% were in other classes. At December 31, 2013, corporate bonds represented 46% of the total below investment grade securities at fair value, mortgage backed securities represented 46% of the total and 8% were in other classes. Unrealized losses include the impact of foreign exchange movements on certain securities denominated in foreign currencies and, as such, the amount of securities in an unrealized loss position fluctuates due to foreign currency movements.

The following table provides information on the severity of the unrealized loss position as a percentage of amortized cost for all Fixed Maturities which were in an unrealized loss position:

Severity of Unrealized Loss	December 31, 2014			December 31, 2013		
	Fair Value	Gross Unrealized Losses	% of Total Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	% of Total Gross Unrealized Losses
0-10%	\$4,181,313	\$(55,498 )	59.8	\$6,006,316	\$(110,954 )	87.3
10-20%	239,158	(33,111 )	35.7	78,250	(11,465 )	9.0
20-30%	5,618	(1,990 )	2.1	13,955	(4,621 )	3.6
30-60%	3,437	(2,135 )	2.4	74	(60 )	0.1
Total	\$4,429,526	\$(92,734 )	100.0	\$6,098,595	\$(127,100 )	100.0

The following table provides information on the severity of the unrealized loss position as a percentage of amortized cost for non-investment grade Fixed Maturities which were in an unrealized loss position:

Severity of Unrealized Loss	December 31, 2014			December 31, 2013		
	Fair Value	Gross Unrealized Losses	% of Total Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	% of Total Gross Unrealized Losses
0-10%	\$141,986	\$(3,728 )	4.0	\$133,354	\$(3,882 )	3.1
10-20%	20,127	(3,530 )	3.8	444	(64 )	0.1
20-30%	5,618	(1,990 )	2.1	1,292	(350 )	0.3
30-80%	3,434	(2,133 )	2.3	28	(35 )	—
Total	\$171,165	\$(11,381 )	12.2	\$135,118	\$(4,331 )	3.5

We determine estimated recovery values for our Fixed Maturities following a review of the business prospects, credit ratings, estimated loss given default factors and information received from asset managers and rating agencies for each security. For structured securities, we utilize underlying data, where available, for each security provided by asset managers and additional information from credit agencies in order to determine an expected recovery value for each security. The analysis provided by the asset managers includes expected cash flow projections under base case and stress case scenarios which modify expected default expectations and loss severities and slow down prepayment assumptions.



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The following table summarizes our top ten exposures to fixed income corporate issuers by fair value at December 31, 2014, excluding guaranteed amounts and covered bonds:

	Fair Value	Credit Rating (1)
Apple Inc.	\$75,226	AA+/Aa1
General Electric Co.	74,471	AA+/A1
Toyota Motor Corporation	64,030	AA-/Aa3
Porsche Automobil Holding SE	58,583	A/A3
Wells Fargo & Company	56,958	A+/A1
Exxon Mobil Corp.	56,332	AAA/Aaa
Daimler AG	55,951	A-/A3
Caterpillar Inc	49,641	A/A2
Royal Dutch Shell PLC	44,317	AA/Aa1
New York Life Insurance Company	42,801	AA+/Aaa
Total	\$578,310	

(1) Ratings as assigned by S&P/Moody's.

Our portfolio includes investments, such as mortgage-backed securities, which are subject to prepayment risk. At December 31, 2014, our investments in residential mortgage-backed securities ("MBS") amounted to approximately \$965.5 million, or 6.6% of total investable assets, compared to \$1.17 billion, or 8.4%, at December 31, 2013. As with other fixed income investments, the fair value of these securities fluctuates depending on market and other general economic conditions and the interest rate environment. Changes in interest rates can expose us to changes in the prepayment rate on these investments. In periods of declining interest rates, mortgage prepayments generally increase and MBS are prepaid more quickly, requiring us to reinvest the proceeds at the then current market rates. Conversely, in periods of rising rates, mortgage prepayments generally fall, preventing us from taking full advantage of the higher level of rates. However, economic conditions may curtail prepayment activity if refinancing becomes more difficult, thus limiting prepayments on MBS. Our portfolio also includes commercial mortgage backed securities ("CMBS"). At December 31, 2014, CMBS constituted approximately \$1.11 billion, or 7.6% of total investable assets, compared to \$1.07 billion, or 7.6%, at December 31, 2013.

Delinquencies and losses with respect to residential mortgage loans from certain vintage years have increased since 2007 and may continue to increase, particularly in the sub-prime sector. In addition, during this period, residential property values in many states have declined or remained stable, after extended periods during which those values appreciated. A continued decline or an extended flattening in those values may result in additional increases in delinquencies and losses on residential mortgage loans generally, especially with respect to second homes and investment properties, and with respect to any residential mortgage loans where the aggregate loan amounts (including any subordinate loans) are close to or greater than the related property values. These developments may have a significant adverse effect on the prices of loans and securities, including those in our investment portfolio. The situation continues to have wide ranging consequences, including downward pressure on economic growth and the potential for increased insurance and reinsurance exposures, which could have an adverse impact on our results of operations, financial condition, business and operations. In addition, the commercial real estate market has experienced price deterioration, which could lead to increased delinquencies and defaults on commercial real estate mortgages.



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The following table provides information on our mortgage backed securities (“MBS”) and CMBS at December 31, 2014, excluding amounts guaranteed by the U.S. government:

	Issuance Year	Amortized Cost	Average Credit Quality	Fair Value Total	% of Amortized Cost	% of Investable Assets	
Non-agency MBS:	2003-2008	\$126,523	CCC-	\$135,797	107.3	% 0.9	%
	2009	28,906	AAA	28,718	99.3	% 0.2	%
	2010	24,336	AA+	23,915	98.3	% 0.2	%
	2013	90,285	AAA	91,304	101.1	% 0.6	%
	2014	21,679	A+	21,648	99.9	% 0.1	%
Total non-agency MBS		\$291,729	BBB-	\$301,382	103.3	% 2.1	%
Non-agency CMBS:	2002-2008	\$69,512	AA-	\$70,297	101.1	% 0.5	%
	2009	368	BBB-	368	100.0	% 0.0	%
	2010	43,394	AAA	44,905	103.5	% 0.3	%
	2011	62,963	AAA	63,820	101.4	% 0.4	%
	2012	88,584	AAA	89,851	101.4	% 0.6	%
	2013	239,980	AAA	244,559	101.9	% 1.7	%
	2014	462,801	AAA	467,362	101.0	% 3.2	%
Total non-agency CMBS		\$967,602	AAA	\$981,162	101.4	% 6.7	%
Additional Statistics:				Non-Agency RMBS		Non-Agency CMBS (1)	
Weighted average loan age (months)				82		27	
Weighted average life (months) (2)				48		55	
Weighted average loan-to-value % (3)				64.2	% 57.7		%
Total delinquencies (4)				10.4	% 0.5		%
Current credit support % (5)				11.5	% 35.5		%

(1) Loans defeased with government/agency obligations were not material to the collateral underlying our CMBS holdings.

(2) The weighted average life for MBS is based on the interest rates in effect at December 31, 2014. The weighted average life for CMBS reflects the average life of the collateral underlying our CMBS holdings.

(3) The range of loan-to-values is 21% to 99% on MBS and 11% to 100% on CMBS.

(4) Total delinquencies includes 60 days and over.

(5) Current credit support % represents the % for a collateralized mortgage obligation (“CMO”) or CMBS class/tranche from other subordinate classes in the same CMO or CMBS deal.

The following table provides information on our asset backed securities (“ABS”) at December 31, 2014:

	Amortized Cost	Average Credit Quality	Weighted Average Credit Support	Fair Value Total	% of Amortized Cost	% of Investable Assets	
Sector:							
Credit cards	\$665,529	AAA	18	% \$667,806	100.3	% 4.6	%
Loans	301,681	AA	52	% 301,121	99.8	% 2.1	%

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Autos	297,384	AAA	27	%	297,954	100.2	%	2.0	%
Equipment	195,860	AA-	8	%	194,629	99.4	%	1.3	%
Other	215,151	AA	13	%	216,431	100.6	%	1.5	%
Total ABS (1)	\$1,675,605	AA+			\$1,677,941	100.1	%	11.5	%

(1)The effective duration of the total ABS was 2.1 years at December 31, 2014.

At December 31, 2014, our fixed income portfolio included \$16.9 million par value in sub-prime securities with an estimated fair value of \$8.5 million and an average credit quality of “CCC/Caa3” from S&P/ Moody’s. At December 31, 2013, our fixed income portfolio included \$48.5 million par value in sub-prime securities with an estimated fair value of \$27.9 million and an average credit quality of “B/Caa1” from S&P/Moody’s. Such amounts were primarily in the home equity sector of our ABS, with the balance in other ABS, MBS and CMBS sectors. We define sub-prime mortgage-backed

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securities as investments in which the underlying loans primarily exhibit one or more of the following characteristics: low FICO scores, above-prime interest rates, high loan-to-value ratios or high debt-to-income ratios. In addition, the portfolio of collateral backing our securities lending program contains approximately \$5.8 million estimated fair value of sub-prime securities with an average credit quality of “CCC/Ca” from S&P/Moody’s at December 31, 2014, compared to approximately \$6.3 million estimated fair value with an average credit quality of “CCC/Caa3” from S&P/Moody’s at December 31, 2013.

The following table provides information on the fair value of our Eurozone investments at December 31, 2014:

	Sovereign (2)	Financial Corporates	Other Corporates	Bank Loans (3)	Equities and Other	Total
Country (1)						
Germany	\$174,554	\$—	\$11,427	\$23,183	\$—	\$209,164
Netherlands	107,114	1,057	59,092	16,914	—	184,177
Supranational (4)	59,095	—	—	—	—	59,095
Luxembourg	—	3,289	31,974	9,426	1,871	46,560
Belgium	43,960	—	—	—	—	43,960
France	2,082	2,372	8,146	3,957	2,966	19,523
Ireland	—	—	2,807	1,542	—	4,349
Finland	—	—	—	—	3,386	3,386
Italy	—	—	1,786	416	—	2,202
Spain	—	—	—	1,074	—	1,074
Slovenia	823	—	—	—	—	823
Greece	82	—	—	—	—	82
Total	\$387,710	\$6,718	\$115,232	\$56,512	\$8,223	\$574,395

The country allocations set forth in the table are based on various assumptions made by us in assessing the country in which the underlying credit risk resides, including a review of the jurisdiction of organization, business operations and other factors. Based on such analysis, we do not believe that we have any other Eurozone fixed maturities at December 31, 2014.

(1) in which the underlying credit risk resides, including a review of the jurisdiction of organization, business operations and other factors. Based on such analysis, we do not believe that we have any other Eurozone fixed maturities at December 31, 2014.

(2) Sovereign includes securities issued and/or guaranteed by Eurozone governments.

(3) Included in “investments accounted for using the fair value option.”

(4) Includes World Bank, European Investment Bank, International Finance Corp. and European Bank for Reconstruction and Development.

At December 31, 2014, our equity portfolio consisted of \$658.2 million of equity securities, compared to \$496.8 million at December 31, 2013. Such amounts are shown net of securities sold but not purchased. Our equity portfolio primarily consists of publicly traded common stocks in the natural resources, energy and consumer staples sectors. The following table provides information on the severity of the unrealized loss position as a percentage of cost for all equity securities classified as available for sale which were in an unrealized loss position:

Severity of Unrealized Loss	December 31, 2014			December 31, 2013		
	Estimated Fair Value	Gross Unrealized Losses	% of Total Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses	% of Total Gross Unrealized Losses
0-10%	\$127,467	\$(4,973)	37.2	52,964	(1,924)	32.4
10-20%	47,880	(6,546)	49.0	20,312	(2,792)	47.0
20-30%	5,328	(1,695)	12.7	3,103	(1,140)	19.2
30-40%	327	(150)	1.1	184	(82)	1.4
Total	\$181,002	\$(13,364)	100.0	\$76,563	\$(5,938)	100.0

On a quarterly basis, we evaluate the unrealized losses of our equity securities by issuer and forecast a reasonable period of time by which the fair value of the securities would increase and we would recover its cost basis. All of the unrealized losses on equity securities were on holdings which have been in a continual unrealized loss position for less than 12 months at December 31, 2014. We believe that a reasonable period of time exists to allow for recovery of the cost basis of our equity securities that are in an unrealized loss position at December 31, 2014.

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The following table summarizes our other investments:

	December 31, 2014	December 31, 2013
Available for sale:		
Asian and emerging markets	\$ 236,586	\$ 331,984
Investment grade fixed income	59,638	159,115
Other	—	7,211
Total available for sale	296,224	498,310
Fair value option:		
Term loan investments (par value: \$397,136 and \$360,204)	410,995	399,591
Mezzanine debt funds	121,341	102,172
Credit related funds	114,436	63,271
Investment grade fixed income	69,108	75,062
Asian and emerging markets	25,800	14,054
Other (1)	147,573	119,130
Total fair value option	889,253	773,280
Total	\$ 1,185,477	\$ 1,271,590

(1) Includes fund investments with strategies in mortgage servicing rights, transportation and infrastructure assets and other.

Certain of our other investments are in investment funds for which we have the option to redeem at agreed upon values as described in each investment fund's subscription agreement. Depending on the terms of the various subscription agreements, investments in investment funds may be redeemed daily, monthly, quarterly or on other terms. Two common redemption restrictions which may impact our ability to redeem these investment funds are gates and lockups. A gate is a suspension of redemptions which may be implemented by the general partner or investment manager of the fund in order to defer, in whole or in part, the redemption request in the event the aggregate amount of redemption requests exceeds a predetermined percentage of the investment fund's net assets which may otherwise hinder the general partner or investment manager's ability to liquidate holdings in an orderly fashion in order to generate the cash necessary to fund extraordinarily large redemption payouts. A lockup period is the initial amount of time an investor is contractually required to hold the security before having the ability to redeem. If our investment is eligible to be redeemed, the time to redeem such investment can take weeks or months following the notification.

Certain of our investment managers may use leverage to achieve a higher rate of return on their assets under management, primarily those included in "other investments available for sale, at fair value," "investments accounted for using the fair value option" and "investments accounted for using the equity method" on our balance sheet. While leverage presents opportunities for increasing the total return of such investments, it may increase losses as well. Accordingly, any event that adversely affects the value of the underlying holdings would be magnified to the extent leverage is used and our potential losses would be magnified. In addition, the structures used to generate leverage may lead to such investments being required to meet covenants based on market valuations and asset coverage. Market valuation declines could force the sale of investments into a depressed market, which may result in significant additional losses. Alternatively, the levered investments may attempt to deleverage by raising additional equity or potentially changing the terms of the established financing arrangements. We may choose to participate in the additional funding of such investments.

Our investment strategy allows for the use of derivative instruments. We utilize various derivative instruments such as futures contracts to enhance investment performance, replicate investment positions or manage market exposures and duration risk that would be allowed under our investment guidelines if implemented in other ways. See note 11, "Derivative Instruments," of the notes accompanying our consolidated financial statements for additional disclosures

concerning derivatives.

Accounting guidance regarding fair value measurements addresses how companies should measure fair value when they are required to use a fair value measure for recognition or disclosure purposes under GAAP and provides a common definition of fair value to be used throughout GAAP. See note 9, "Fair Value" of the notes accompanying our consolidated financial statements for a summary of our financial assets and liabilities measured at fair value at December 31, 2014 and 2013 by level.

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## Investable Assets in the 'Other' Segment

Investable assets in the 'other' segment are managed by Watford Re. The board of directors of Watford Re establishes their investment policies and guidelines. Watford Re's investments are accounted for using the fair value option with changes in the carrying value of such investments recorded in net realized gains or losses. At December 31, 2014, Watford Re's investable assets consisted of the following:

	December 31, 2014
Cash	\$ 11,455
Investments accounted for using the fair value option:	
Term loan investments (par value: \$678,875)	662,654
Fixed maturities	254,971
Short-term investments	251,601
Total investments accounted for using the fair value option	1,169,226
Securities transactions entered into but not settled at the balance sheet date	(17,441 )
Total investable assets included in 'other' segment	\$ 1,163,240

## Premiums Receivable and Reinsurance Recoverables

At December 31, 2014, 80.9% of premiums receivable of \$948.7 million represented amounts not yet due, while amounts in excess of 90 days overdue were 5.4% of the total. At December 31, 2013, 80.0% of premiums receivable of \$753.9 million represented amounts not yet due, while amounts in excess of 90 days overdue were 3.3% of the total. Approximately 1.0% of the \$34.5 million of paid losses and loss adjustment expenses recoverable were in excess of 90 days overdue at December 31, 2014, compared to 27.6% of the \$56.1 million of paid losses and loss adjustment expenses recoverable at December 31, 2013. No collection issues were indicated on the amount in excess of 90 days overdue at December 31, 2014. At December 31, 2014 and 2013, our reserves for doubtful accounts were approximately \$13.4 million and \$12.3 million, respectively.

The following table details our reinsurance recoverables at December 31, 2014:

	% of Total	A.M. Best Rating (1)
Everest Reinsurance Company	12.4	% A+
Munich Reinsurance America, Inc.	8.8	% A+
Lloyd's syndicates (2)	6.0	% A
Partner Reinsurance Company of the U.S.	5.4	% A+
Transatlantic Reinsurance Company	5.1	% A
Hannover Rückversicherung AG	4.7	% A+
Odyssey America Reinsurance Corporation (3)	4.7	% A
Allied World Assurance Company, Ltd.	3.8	% A
Berkley Insurance Company	3.8	% A+
Swiss Reinsurance America Corporation	3.8	% A+
All other (4)	41.5	%
Total	100.0	%

The financial strength ratings are as of February 11, 2015 and were assigned by A.M. Best based on its opinion of the insurer's financial strength as of such date. An explanation of the ratings listed in the table follows: the rating of "A+" is designated "Superior"; and the "A" rating is designated "Excellent." Additionally, A.M. Best has five (1) classifications within the "Not Rated" or "NR" category. Reasons for an "NR" rating being assigned by A.M. Best include insufficient data, size or operating experience, companies which are in run-off with no active business writings or are dormant, companies which disagree with their rating and request that a rating not be published or insurers that request not to be formally evaluated for the purposes of assigning a rating opinion.

- (2) The A.M. Best group rating of "A" (Excellent) has been applied to all Lloyd's syndicates.
- (3) A significant portion of amounts due from Odyssey America Reinsurance Corporation is collateralized through reinsurance trusts.
- (4) Such amount included 24.5% due from companies rated "A-" or better and 17.0% from companies not rated. For items not rated, a substantial portion of such amount is collateralized through reinsurance trusts or letters of credit.

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At December 31, 2014, approximately 83.0% of reinsurance recoverables on paid and unpaid losses (not including prepaid reinsurance premiums) of \$1.81 billion were due from carriers which had an A.M. Best rating of “A-” or better and the largest reinsurance recoverables from any one carrier was approximately 3.7% of total shareholders’ equity available to Arch. At December 31, 2013, approximately 86.5% of reinsurance recoverables on paid and unpaid losses (not including prepaid reinsurance premiums) of \$1.80 billion were due from carriers which had an A.M. Best rating of “A-” or better and the largest reinsurance recoverables from any one carrier was approximately 4.2% of total shareholders’ equity available to Arch.

**Reserves for Losses and Loss Adjustment Expenses**

We establish reserves for losses and loss adjustment expenses (“Loss Reserves”) which represent estimates involving actuarial and statistical projections, at a given point in time, of our expectations of the ultimate settlement and administration costs of losses incurred. Estimating Loss Reserves is inherently difficult, which is exacerbated by the fact that we are a relatively new company with relatively limited historical experience upon which to base such estimates. We utilize actuarial models as well as available historical insurance industry loss ratio experience and loss development patterns to assist in the establishment of Loss Reserves. Actual losses and loss adjustment expenses paid will deviate, perhaps substantially, from the reserve estimates reflected in our financial statements. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies, Estimates and Recent Accounting Pronouncements—Reserves for Losses and Loss Adjustment Expenses” and “Business—Reserves” for further details.

**Shareholders’ Equity**

Shareholders’ equity available to Arch was \$6.13 billion at December 31, 2014, compared to \$5.65 billion at December 31, 2013. The increase in 2014 was primarily attributable to underwriting and investment returns, partially offset by share repurchase activity during the period.

**Book Value per Common Share**

The following table presents the calculation of book value per common share at December 31, 2014 and 2013:

(U.S. dollars in thousands, except share data)	December 31,	
	2014	2013
Calculation of book value per common share:		
Total shareholders’ equity	\$6,130,053	\$5,647,496
Less preferred shareholders’ equity	325,000	325,000
Common shareholders’ equity	\$5,805,053	\$5,322,496
Common shares outstanding (1)	127,367,934	133,674,884
Book value per common share	\$45.58	\$39.82

(1) Excludes the effects of 7,804,033 and 8,338,480 stock options and 447,073 and 443,710 restricted stock units outstanding at December 31, 2014 and 2013, respectively.

**Liquidity and Capital Resources**

ACGL is a holding company whose assets primarily consist of the shares in its subsidiaries. Generally, ACGL depends on its available cash resources, liquid investments and dividends or other distributions from its subsidiaries to make payments, including the payment of debt service obligations and operating expenses it may incur and any dividends or liquidation amounts with respect to the Series C non-cumulative preferred shares and common shares. ACGL’s readily available cash, short-term investments and marketable securities, excluding amounts held by our regulated insurance and reinsurance subsidiaries, totaled \$3.3 million at December 31, 2014, compared to \$5.8 million at December 31, 2013. During 2014, ACGL received dividends of \$515.7 million from Arch Re Bermuda which were primarily used to fund the share repurchase program described below.

The ability of our regulated insurance and reinsurance subsidiaries to pay dividends or make distributions or other payments to us is dependent on their ability to meet applicable regulatory standards. Under Bermuda law, Arch Re Bermuda is required to maintain an enhanced capital requirement which must equal or exceed its minimum solvency margin (i.e., the amount by which the value of its general business assets must exceed its general business liabilities) equal



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to the greatest of (1) \$100.0 million, (2) 50% of net premiums written (being gross premiums written less any premiums ceded by Arch Re Bermuda, but Arch Re Bermuda may not deduct more than 25% of gross premiums when computing net premiums written) and (3) 15% of net discounted aggregated losses and loss expense provisions and other insurance reserves. Arch Re Bermuda is prohibited from declaring or paying any dividends during any financial year if it is not in compliance with its enhanced capital requirement, minimum solvency margin or minimum liquidity ratio. In addition, Arch Re Bermuda is prohibited from declaring or paying in any financial year dividends of more than 25% of its total statutory capital and surplus (as shown on its previous financial year's statutory balance sheet) unless it files, at least seven days before payment of such dividends, with the Bermuda Monetary Authority ("BMA") an affidavit stating that it will continue to meet the required margins. In addition, Arch Re Bermuda is prohibited, without prior approval of the BMA, from reducing by 15% or more its total statutory capital, as set out in its previous year's statutory financial statements. As a Class 4 insurer, Arch Re Bermuda is required to maintain available statutory capital and surplus pertaining to its general business at a level equal to or in excess of its enhanced capital requirement ("ECR") which is established by reference to either the BSCR model ("BSCR") or an approved internal capital model. At December 31, 2014, as determined under Bermuda law, Arch Re Bermuda had statutory capital of \$2.40 billion (\$2.36 billion at December 31, 2013) and statutory capital and surplus of \$5.42 billion (\$5.42 billion at December 31, 2013), which amounts were in compliance with Arch Re Bermuda's ECR at such date. Such amounts include ownership interests in U.S. insurance and reinsurance subsidiaries. Accordingly, Arch Re Bermuda can pay approximately \$1.36 billion to ACGL during 2015 without providing an affidavit to the BMA, as discussed above. Under BMA guidelines, the value of the assets of our insurance group (i.e., the group of companies that conducts exclusively, or mainly, insurance business) must exceed the amount of the group's liabilities by the aggregate minimum margin of solvency of each qualifying member of the group (the "Group MSM"). A member is a qualifying member of the insurance group if it is subject to solvency requirements in the jurisdiction in which it is registered. We were in compliance with the Group MSM at December 31, 2014.

Our U.S. insurance and reinsurance subsidiaries are subject to insurance laws and regulations in the jurisdictions in which they operate. The ability of our regulated insurance subsidiaries to pay dividends or make distributions is dependent on their ability to meet applicable regulatory standards. These regulations include restrictions that limit the amount of dividends or other distributions, such as loans or cash advances, available to shareholders without prior approval of the insurance regulatory authorities. Dividends or distributions, if any, made by Arch Re U.S. would result in an increase in available capital at Arch Capital Group (U.S.) Inc. ("Arch-U.S."), a wholly-owned subsidiary of ACGL. Arch Re U.S. can declare a maximum of approximately \$110 million of dividends during 2015 subject to the approval of the Commissioner of the Delaware Department of Insurance ("Commissioner"). In addition, with respect to dividends in excess of the \$110 million (extraordinary dividend), no payment can be made until (1) 30 days after the Commissioner has received notice of the declaration thereof and has not within such period disapproved such payments; or (2) the Commissioner shall have approved the payment within the 30-day period. Delaware insurance laws also require that the statutory surplus of Arch Re U.S. following any dividend or distribution be reasonable in relation to its outstanding liabilities and adequate to its financial needs.

Arch MI U.S. is currently approved by the GSEs as an eligible mortgage insurer. In addition to existing eligibility requirements applicable to all eligible mortgage insurers, the GSEs imposed conditions in connection with their approvals of Arch MI U.S. as a qualified mortgage insurer. These conditions require, among other things, that Arch MI U.S.: (i) maintain, through December 31, 2016, minimum capital funding of \$400 million which may consist of statutory capital (policyholders' surplus plus contingency reserves), dedicated reinsurance trust assets for any primary business reinsured and a value for purchased technology assets; (ii) maintain minimum statutory capital (defined as policyholders' surplus plus contingency reserves) of no less than \$260 million; (iii) maintain a risk-to-capital ratio of no greater than 18 to 1; and (iv) refrain from paying dividends to affiliates for three years commencing February 2014. In addition to meeting applicable regulatory standards, the ability of our insurance and reinsurance subsidiaries to pay dividends to intermediate parent companies owned by Arch Re Bermuda is also constrained by our dependence on the financial strength ratings of our insurance and reinsurance subsidiaries from independent rating agencies. The ratings from these agencies depend to a large extent on the capitalization levels of our insurance and reinsurance subsidiaries. We believe that ACGL has sufficient cash resources and available dividend capacity to service its indebtedness and

other current outstanding obligations.

Our insurance and reinsurance subsidiaries are required to maintain assets on deposit, which primarily consist of fixed maturities, with various regulatory authorities to support their operations. The assets on deposit are available to settle insurance and reinsurance liabilities to third parties. Our insurance and reinsurance subsidiaries maintain assets in trust accounts as collateral for insurance and reinsurance transactions with affiliated companies and also have investments in

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segregated portfolios primarily to provide collateral or guarantees for letters of credit to third parties. At December 31, 2014 and 2013, such amounts approximated \$5.52 billion and \$5.30 billion, respectively.

Our non-U.S. operations account for a significant percentage of our net premiums written. In general, the business written by our non-U.S. operations, which is heavily weighted towards reinsurance business, has been more profitable than the business written in our U.S. operations, which is weighted more towards insurance business. In general, our reinsurance segment has operated at a higher margin than our insurance segment, largely due to the mix and type of business written. A significant component of our pre-tax income is generated through our investment performance. We hold a substantial amount of our investable assets in our non-U.S. operations and, accordingly, a large portion of our investment income is produced in our non-U.S. operations. In addition, ACGL, through its subsidiaries, provides financial support to certain of its insurance subsidiaries and affiliates, through certain reinsurance arrangements beneficial to the ratings of such subsidiaries. Our U.S.-based insurance and reinsurance groups enter into separate reinsurance arrangements with Arch Re Bermuda covering individual lines of business. For the 2014 calendar year, the U.S. groups ceded business to Arch Re Bermuda at an aggregate net cession rate (i.e., net of third party reinsurance) of approximately 53% (compared to 55% for 2013). All of the above factors have resulted in the non-U.S. group providing a higher contribution to our overall pre-tax income in the current period than the percentage of net premiums written would indicate.

Except as described in the above paragraph, or where express reinsurance, guarantee or other financial support contractual arrangements are in place, each of ACGL's subsidiaries or affiliates is solely responsible for its own liabilities and commitments (and no other ACGL subsidiary or affiliate is so responsible). Any reinsurance arrangements, guarantees or other financial support contractual arrangements that are in place are solely for the benefit of the ACGL subsidiary or affiliate involved and third parties (creditors or insureds of such entity) are not express beneficiaries of such arrangements.

The following table summarizes our consolidated cash flows from operating, investing and financing activities:

	Year Ended		
	December 31,		
	2014	2013	2012
Total cash provided by (used for):			
Operating activities	\$1,037,130	\$850,868	\$921,603
Investing activities	(1,505,421 )	(1,307,513 )	(395,968 )
Financing activities	539,943	524,018	(513,035 )
Effects of exchange rate changes on foreign currency cash	(20,007 )	(4,357 )	6,742
Increase (decrease) in cash	\$51,645	\$63,016	\$19,342

Cash provided by operating activities for 2014 was higher than in 2013, primarily due to a higher level of premiums collected in our underwriting operations, partially offset by a higher level of operating expenses reflecting the addition of Arch MI U.S. in 2014.

Cash used for investing activities for 2014 was higher than in 2013. Investing activities in 2014 reflected increases in both purchases and sales of fixed maturity investments compared to 2013 and continued funding of other investments (both existing and new investments).

Cash provided by financing activities for 2014 was higher than in 2013, primarily due to Watford Re capital activity of \$1.01 billion, partially offset by increased share repurchases under our share repurchase program compared to 2013. The 2013 amount reflects our issuance of \$500 million of senior notes.

Our insurance and reinsurance operations provide liquidity in that premiums are received in advance, sometimes substantially in advance, of the time losses are paid. The period of time from the occurrence of a claim through the settlement of the liability may extend many years into the future. Sources of liquidity include cash flows from operations, financing arrangements or routine sales of investments.

As part of our investment strategy, we seek to establish a level of cash and highly liquid short-term and intermediate-term securities which, combined with expected cash flow, is believed by us to be adequate to meet our foreseeable payment obligations. However, due to the nature of our operations, cash flows are affected by claim payments that may comprise large payments on a limited number of claims and which can fluctuate from year to year.

We believe that our liquid investments and cash flow will provide us with sufficient liquidity in order to meet our claim payment obligations. However, the timing and amounts of actual claim payments related to recorded Loss Reserves vary based on many factors,

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including large individual losses, changes in the legal environment, as well as general market conditions. The ultimate amount of the claim payments could differ materially from our estimated amounts. Certain lines of business written by us, such as excess casualty, have loss experience characterized as low frequency and high severity. The foregoing may result in significant variability in loss payment patterns. The impact of this variability can be exacerbated by the fact that the timing of the receipt of reinsurance recoverables owed to us may be slower than anticipated by us. Therefore, the irregular timing of claim payments can create significant variations in cash flows from operations between periods and may require us to utilize other sources of liquidity to make these payments, which may include the sale of investments or utilization of existing or new credit facilities or capital market transactions. If the source of liquidity is the sale of investments, we may be forced to sell such investments at a loss, which may be material.

Our investments in certain securities, including certain fixed income and structured securities, investments in funds accounted for using the equity method, other investments and our investment in Gulf Re (joint venture) may be illiquid due to contractual provisions or investment market conditions. If we require significant amounts of cash on short notice in excess of anticipated cash requirements, then we may have difficulty selling these investments in a timely manner or may be forced to sell or terminate them at unfavorable values.

At December 31, 2014, total investable assets of \$15.77 billion included \$14.61 billion managed by Arch and \$1.16 billion included in the 'other' segment (i.e., attributable to Watford Re), compared to \$14.05 billion managed by Arch at December 31, 2013. The primary goals of our asset liability management process are to satisfy the insurance liabilities, manage the interest rate risk embedded in those insurance liabilities and maintain sufficient liquidity to cover fluctuations in projected liability cash flows, including debt service obligations. Generally, the expected principal and interest payments produced by our fixed income portfolio adequately fund the estimated runoff of our insurance reserves. Although this is not an exact cash flow match in each period, the substantial degree by which the fair value of the fixed income portfolio exceeds the expected present value of the net insurance liabilities, as well as the positive cash flow from newly sold policies and the large amount of high quality liquid bonds, provide assurance of our ability to fund the payment of claims and to service our outstanding debt without having to sell securities at distressed prices or access credit facilities. Our unfunded investment commitments totaled approximately \$968.9 million at December 31, 2014.

Changes in general economic conditions, including new or continued sovereign debt concerns in Eurozone countries or downgrades of U.S. securities by credit rating agencies, could have a material adverse effect on financial markets and economic conditions in the U.S. and throughout the world. In turn, this could have a material adverse effect on our business, financial condition and results of operations and, in particular, this could have a material adverse effect on the value and liquidity of securities in our investment portfolio. Our investment portfolio as of December 31, 2014 included \$387.7 million of securities issued and/or guaranteed by Eurozone governments at fair value, \$1.45 billion of obligations of the U.S. government and government agencies at fair value and \$1.49 billion of municipal bonds at fair value. Please refer to Item 1A "Risk Factors" for a discussion of other risks relating to our business and investment portfolio.

We expect that our liquidity needs, including our anticipated insurance obligations and operating and capital expenditure needs, for the next twelve months, at a minimum, will be met by funds generated from underwriting activities and investment income, as well as by our balance of cash, short-term investments, proceeds on the sale or maturity of our investments, and our credit facilities.

We monitor our capital adequacy on a regular basis and will seek to adjust our capital base (up or down) according to the needs of our business. The future capital requirements of our business will depend on many factors, including our ability to write new business successfully and to establish premium rates and reserves at levels sufficient to cover losses. Our ability to underwrite is largely dependent upon the quality of our claims paying and financial strength ratings as evaluated by independent rating agencies. In particular, we require (1) sufficient capital to maintain our financial strength ratings, as issued by several ratings agencies, at a level considered necessary by management to enable our key operating subsidiaries to compete; (2) sufficient capital to enable our underwriting subsidiaries to meet the capital adequacy tests performed by statutory agencies in the U.S. and other key markets; and (3) letters of credit and other forms of collateral that are necessary for our non-U.S. operating companies because they are "non-admitted" under U.S. state insurance regulations.

New financial requirements for private mortgage insurers were released for public comment by the Federal Housing Finance Agency (“FHFA”) in July 2014, and Arch MI U.S. will be subject to these requirements once enacted. The draft Private Mortgage Insurer Eligibility Requirements (“PMIERS”) establish new standards that mortgage insurers must meet in order to insure loans sold to or guaranteed by Federal National Mortgage Association and Federal Home Loan Mortgage

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Corporation (the GSEs). The PMIERS were subject to a sixty-day public comment period which ended on September 8, 2014. The PMIERS' financial requirements are based in part on a risk-based, required assets model and employ a grid approach based upon a number of factors, including vintage (origination year), original loan-to-value and original credit score of performing loans and the delinquency status of non-performing loans. The draft PMIERS propose up to a two year phase-in, beginning after publication of final PMIERS, for approved mortgage insurers to fully comply with the PMIER financial requirements. The available assets required to satisfy such final requirements at any point in time will be affected by many factors, including the content and timing of any final PMIERS, macro-economic conditions, and the size and composition of Arch MI U.S.'s mortgage insurance portfolio at the applicable point in time. Based upon its mortgage insurance portfolio as of December 31, 2014 (including credit for reinsurance ceded to affiliates), we believe that Arch MI U.S. currently satisfies the proposed financial requirements, although no assurance can be given as to what changes, if any, will be made to the final PMIERS.

In December 2013, Arch-U.S., a wholly-owned subsidiary of ACGL, completed a public offering of \$500.0 million principal amount of 5.144% senior notes issued at par and due November 1, 2043 ("Arch-U.S. Senior Notes"), fully and unconditionally guaranteed by ACGL (the "Guarantee"). The Arch-U.S. Senior Notes are unsecured and unsubordinated obligations of Arch-U.S. and ACGL, respectively, and rank equally and ratably with the other unsecured and unsubordinated indebtedness of Arch-U.S. and ACGL, respectively. A portion of the proceeds from the offering were used to fund the acquisition of the mortgage operations noted below. In addition, the proceeds are available for other corporate purposes.

On January 30, 2014, we completed our acquisition of the CMG Entities. The Stock Purchase Agreement contains provisions for contingent consideration payments, subject to an overall maximum payment of 150% of closing book value of the pre-closing portfolio of the CMG Entities as re-calculated over an earn-out period and payable at the third, fifth and sixth anniversaries after closing (subject to a one time extension period of one to three years at the sellers' discretion). The maximum amount of contingent consideration payments is \$136.9 million over the earn-out period. To the extent that the adjusted book value of the CMG Entities drops below the cumulative amount paid by us, no additional payments would be due.

As part of our capital management program, we may seek to raise additional capital or may seek to return capital to our shareholders through share repurchases, cash dividends or other methods (or a combination of such methods). Any such determination will be at the discretion of our board of directors and will be dependent upon our profits, financial requirements and other factors, including legal restrictions, rating agency requirements and such other factors as our board of directors deems relevant.

The board of directors of ACGL has authorized the investment in ACGL's common shares through a share repurchase program. Authorizations have consisted of a \$1.0 billion authorization in February 2007, a \$500.0 million authorization in May 2008, a \$1.0 billion authorization in November 2009, a \$1.0 billion authorization in February 2011 and a \$629.2 million authorization in November 2014. Since the inception of the share repurchase program through December 31, 2014, ACGL has repurchased approximately 118.1 million common shares for an aggregate purchase price of \$3.24 billion. At December 31, 2014, approximately \$887.1 million of share repurchases were available under the program. Repurchases under the program may be effected from time to time in open market or privately negotiated transactions through December 31, 2016. The timing and amount of the repurchase transactions under this program will depend on a variety of factors, including market conditions and corporate and regulatory considerations. We will continue to monitor our share price and, depending upon results of operations, market conditions and the development of the economy, as well as other factors, we will consider share repurchases on an opportunistic basis.

To the extent that our existing capital is insufficient to fund our future operating requirements or maintain such ratings, we may need to raise additional funds through financings or limit our growth. Given the recent severe disruptions in the public debt and equity markets, including among other things, widening of credit spreads, lack of liquidity and bankruptcies, we can provide no assurance that, if needed, we would be able to obtain additional funds through financing on satisfactory terms or at all. Continued adverse developments in the financial markets, such as disruptions, uncertainty or volatility in the capital and credit markets, may result in realized and unrealized capital losses that could have a material adverse effect on our results of operations, financial position and our businesses, and

may also limit our access to capital required to operate our business.

If we are not able to obtain adequate capital, our business, results of operations and financial condition could be adversely affected, which could include, among other things, the following possible outcomes: (1) potential downgrades in

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the financial strength ratings assigned by ratings agencies to our operating subsidiaries, which could place those operating subsidiaries at a competitive disadvantage compared to higher-rated competitors; (2) reductions in the amount of business that our operating subsidiaries are able to write in order to meet capital adequacy-based tests enforced by statutory agencies; and (3) any resultant ratings downgrades could, among other things, affect our ability to write business and increase the cost of bank credit and letters of credit. In addition, under certain of the reinsurance agreements assumed by our reinsurance operations, upon the occurrence of a ratings downgrade or other specified triggering event with respect to our reinsurance operations, such as a reduction in surplus by specified amounts during specified periods, our ceding company clients may be provided with certain rights, including, among other things, the right to terminate the subject reinsurance agreement and/or to require that our reinsurance operations post additional collateral.

In addition to common share capital, we depend on external sources of finance to support our underwriting activities, which can be in the form (or any combination) of debt securities, preference shares, common equity and bank credit facilities providing loans and/or letters of credit. As noted above, equity or debt financing, if available at all, may be on terms that are unfavorable to us. In the case of equity financings, dilution to our shareholders could result, and, in any case, such securities may have rights, preferences and privileges that are senior to those of our outstanding securities.

In June 2014, we entered into a five-year agreement for a \$300.0 million unsecured revolving loan and letter of credit facility and a \$500.0 million secured letter of credit facility. Under the terms of the agreement, Arch Re U.S. and Arch Re Bermuda are limited to issuing an aggregate of \$100.0 million of unsecured letters of credit as part of the unsecured revolving loan. In addition, we have access to letter of credit facilities for up to a total of \$190.9 million, which are available on a limited basis and for limited purposes. Refer to note 16, “Commitments and Contingencies—Letter of Credit and Revolving Credit Facilities,” of the notes accompanying our consolidated financial statements for a discussion of our available facilities, applicable covenants on such facilities and available capacity. In March 2012, ACGL and Arch-U.S. filed a universal shelf registration statement with the SEC. This registration statement allows for the possible future offer and sale by us of various types of securities, including unsecured debt securities, preference shares, common shares, warrants, share purchase contracts and units and depositary shares. The shelf registration statement enables us to efficiently access the public debt and/or equity capital markets in order to meet our future capital needs. The shelf registration statement also allows selling shareholders to resell common shares that they own in one or more offerings from time to time. We will not receive any proceeds from any shares offered by the selling shareholders. This report is not an offer to sell or the solicitation of an offer to buy nor shall there be any sale of these securities in any state in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

At December 31, 2014, ACGL’s capital of \$7.03 billion consisted of \$800.0 million of senior notes, representing 11.4% of the total, \$100.0 million of revolving credit agreement borrowings due in June 2019, representing 1.4% of the total, \$325.0 million of preferred shares, representing 4.6% of the total, and common shareholders’ equity of \$5.81 billion, representing 82.6% of the total. At December 31, 2013, ACGL’s capital of \$6.55 billion consisted of \$800.0 million of senior notes, representing 12.2% of the total, \$100.0 million of revolving credit agreement borrowings, representing 1.5% of the total, \$325.0 million of preferred shares, representing 5.0% of the total, and common shareholders’ equity of \$5.32 billion, representing 81.3% of the total. The increase in 2014 was primarily attributable to underwriting and investing returns, partially offset by share repurchases during the period.

**NATURAL AND MAN-MADE CATASTROPHIC EVENTS**

We have large aggregate exposures to natural and man-made catastrophic events. Catastrophes can be caused by various events, including hurricanes, floods, windstorms, earthquakes, hailstorms, tornados, explosions, severe winter weather, fires, droughts and other natural disasters. Catastrophes can also cause losses in non-property business such as workers’ compensation or general liability. In addition to the nature of property business, we believe that economic and geographic trends affecting insured property, including inflation, property value appreciation and geographic concentration, tend to generally increase the size of losses from catastrophic events over time.

We have substantial exposure to unexpected, large losses resulting from future man-made catastrophic events, such as acts of war, acts of terrorism and political instability. These risks are inherently unpredictable. It is difficult to predict

the timing of such events with statistical certainty or estimate the amount of loss any given occurrence will generate. It is not possible to completely eliminate our exposure to unforecasted or unpredictable events and, to the extent that losses from such risks occur, our financial condition and results of operations could be materially adversely affected. Therefore, claims

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for natural and man-made catastrophic events could expose us to large losses and cause substantial volatility in our results of operations, which could cause the value of our common shares to fluctuate widely. In certain instances, we specifically insure and reinsure risks resulting from terrorism. Even in cases where we attempt to exclude losses from terrorism and certain other similar risks from some coverages written by us, we may not be successful in doing so. Moreover, irrespective of the clarity and inclusiveness of policy language, there can be no assurance that a court or arbitration panel will limit enforceability of policy language or otherwise issue a ruling adverse to us.

We seek to limit our loss exposure by writing a number of our reinsurance contracts on an excess of loss basis, adhering to maximum limitations on reinsurance written in defined geographical zones, limiting program size for each client and prudent underwriting of each program written. In the case of proportional treaties, we may seek per occurrence limitations or loss ratio caps to limit the impact of losses from any one or series of events. In our insurance operations, we seek to limit our exposure through the purchase of reinsurance. We cannot be certain that any of these loss limitation methods will be effective. We also seek to limit our loss exposure by geographic diversification. Geographic zone limitations involve significant underwriting judgments, including the determination of the area of the zones and the inclusion of a particular policy within a particular zone's limits. There can be no assurance that various provisions of our policies, such as limitations or exclusions from coverage or choice of forum, will be enforceable in the manner we intend. Disputes relating to coverage and choice of legal forum may also arise. Underwriting is inherently a matter of judgment, involving important assumptions about matters that are inherently unpredictable and beyond our control, and for which historical experience and probability analysis may not provide sufficient guidance. One or more catastrophic or other events could result in claims that substantially exceed our expectations, which could have a material adverse effect on our financial condition or our results of operations, possibly to the extent of eliminating our shareholders' equity.

For our natural catastrophe exposed business, we seek to limit the amount of exposure we will assume from any one insured or reinsured and the amount of the exposure to catastrophe losses from a single event in any geographic zone. We monitor our exposure to catastrophic events, including earthquake and wind and periodically reevaluate the estimated probable maximum pre-tax loss for such exposures. Our estimated probable maximum pre-tax loss is determined through the use of modeling techniques, but such estimate does not represent our total potential loss for such exposures. Our models employ both proprietary and vendor-based systems and include cross-line correlations for property, marine, offshore energy, aviation, workers compensation and personal accident. We seek to limit the probable maximum pre-tax loss to a specific level for severe catastrophic events. Currently, we seek to limit our 1-in-250 year return period net probable maximum loss from a severe catastrophic event in any geographic zone to approximately 25% of total shareholders' equity. We reserve the right to change this threshold at any time. Net probable maximum loss estimates are net of expected reinsurance recoveries, before income tax and before excess reinsurance reinstatement premiums. Loss estimates are reflective of the zone indicated and not the entire portfolio. Since hurricanes and windstorms can affect more than one zone and make multiple landfalls, our loss estimates include clash estimates from other zones. Our loss estimates do not represent our maximum exposures and it is highly likely that our actual incurred losses would vary materially from the modeled estimates. There can be no assurances that we will not suffer pre-tax losses greater than 25% of our total shareholders' equity from one or more catastrophic events due to several factors, including the inherent uncertainties in estimating the frequency and severity of such events and the margin of error in making such determinations resulting from potential inaccuracies and inadequacies in the data provided by clients and brokers, the modeling techniques and the application of such techniques or as a result of a decision to change the percentage of shareholders' equity exposed to a single catastrophic event. In addition, actual losses may increase if our reinsurers fail to meet their obligations to us or the reinsurance protections purchased by us are exhausted or are otherwise unavailable. See "Risk Factors—Risk Relating to Our Industry." Depending on business opportunities and the mix of business that may comprise our insurance and reinsurance portfolio, we may seek to adjust our self-imposed limitations on probable maximum pre-tax loss for catastrophe exposed business. See "—Critical Accounting Policies, Estimates and Recent Accounting Pronouncements—Ceded Reinsurance" for a discussion of our catastrophe reinsurance programs.



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## CONTRACTUAL OBLIGATIONS AND COMMERCIAL COMMITMENTS

## Letter of Credit and Revolving Credit Facilities

As of December 31, 2014, we had a \$300.0 million unsecured revolving loan and letter of credit facility and a \$500.0 million secured letter of credit facility (the “Credit Agreement”). Under the terms of the agreement, Arch Re U.S. and Arch Re Bermuda are limited to issuing an aggregate of \$100.0 million of unsecured letters of credit as part of the \$300.0 million unsecured revolving loan. Borrowings of revolving loans may be made by ACGL at a variable rate based on LIBOR or an alternative base rate at our option. Secured letters of credit are available for issuance on behalf of our insurance and reinsurance subsidiaries. The Credit Agreement and related documents are structured such that each party that requests a letter of credit or borrowing does so only for itself and for only its own obligations. Issuance of letters of credit and borrowings under the Credit Agreement are subject to our compliance with certain covenants and conditions, including absence of a material adverse change. These covenants require, among other things, that we maintain a debt to total capital ratio of not greater than 0.35 to 1 and consolidated tangible net worth in excess of \$3.95 billion plus 25% of future aggregate net income for each quarterly period (not including any future net losses) beginning after March 31, 2014 and 25% of future aggregate proceeds from the issuance of common or preferred equity and that our principal insurance and reinsurance subsidiaries maintain at least a “B++” rating from A.M. Best. In addition, certain of our subsidiaries which are party to the Credit Agreement are required to maintain minimum shareholders’ equity levels. We were in compliance with all covenants contained in the Credit Agreement at December 31, 2014. The Credit Agreement expires on June 30, 2019.

We have access to other letter of credit facilities for up to a total of \$190.9 million, which are available on a limited basis and for limited purposes (together with the secured portion of the Credit Agreement and these letter of credit facilities, the “LOC Facilities”). The principal purpose of the LOC Facilities is to issue, as required, evergreen standby letters of credit in favor of primary insurance or reinsurance counterparties with which we have entered into reinsurance arrangements to ensure that such counterparties are permitted to take credit for reinsurance obtained from our reinsurance subsidiaries in United States jurisdictions where such subsidiaries are not licensed or otherwise admitted as an insurer, as required under insurance regulations in the United States, and to comply with requirements of Lloyd’s of London in connection with qualifying quota share and other arrangements. The amount of letters of credit issued is driven by, among other things, the timing and payment of catastrophe losses, loss development of existing reserves, the payment pattern of such reserves, the further expansion of our business and the loss experience of such business. When issued, certain letters of credit are secured by a portion of our investment portfolio. In addition, the LOC Facilities also require the maintenance of certain covenants, which we were in compliance with at December 31, 2014. At such date, we had approximately \$423.2 million in outstanding letters of credit under the LOC Facilities, which were secured by investments with a fair value of \$483.5 million, and had \$100.0 million of borrowings outstanding under the Credit Agreement.

As of December 31, 2014, Watford Re had a \$200 million line of credit facility that expires on May 19, 2015. At December 31, 2014, Watford Re had \$26.0 million in outstanding letters of credit under that credit facility. Watford Re was in compliance with all covenants contained in its credit facility at December 31, 2014.

## Senior Notes

On May 4, 2004, ACGL completed a public offering of \$300.0 million principal amount of 7.35% senior notes due May 1, 2034 (“ACGL Senior Notes”). The ACGL Senior Notes are ACGL’s senior unsecured obligations and rank equally with all of its existing and future senior unsecured indebtedness. Interest payments on the ACGL Senior Notes are due on May 1st and November 1st of each year. ACGL may redeem the ACGL Senior Notes at any time and from time to time, in whole or in part, at a “make-whole” redemption price. The fair value of the ACGL Senior Notes at December 31, 2014 and 2013 was \$462.4 million and \$381.0 million, respectively.

On December 13, 2013, Arch-U.S., a wholly-owned subsidiary of ACGL, completed a public offering of \$500.0 million principal amount of 5.144% senior notes due November 1, 2043 (“Arch-U.S. Senior Notes”), fully and

unconditionally guaranteed by ACGL (the “Guarantee”). The Arch-U.S. Senior Notes are unsecured and unsubordinated obligations of Arch-U.S. and ACGL, respectively, and rank equally and ratably with the other unsecured and unsubordinated indebtedness of Arch-U.S. and ACGL, respectively. Interest payments on the Arch-U.S. Senior Notes are due on May 1st and November 1st of each year. Arch-U.S. may redeem the Arch-U.S. Senior Notes at any time and from time to time, in whole or in part, at a “make-whole” redemption price. The fair value of the Arch-U.S. Senior Notes at December 31, 2014 and 2013 was \$609.9 million and \$514.1 million, respectively.

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ACGL and Arch-U.S. are each holding companies and, accordingly, they conduct substantially all of their operations through their operating subsidiaries. As a result, ACGL and Arch-U.S.'s cash flows and their ability to service their debt depends upon the earnings of their operating subsidiaries and on their ability to distribute the earnings, loans or other payments from such subsidiaries to ACGL and Arch-U.S., respectively.

During 2014, 2013 and 2012, we made interest payments of \$46.4 million, \$23.7 million and \$29.1 million, respectively, related to its senior notes and other financing arrangements.

Investment in Joint Venture

In 2008, we provided \$100.0 million of funding to Gulf Reinsurance Limited (“Gulf Re”), a specialty reinsurer based in the Dubai International Financial Centre which was founded jointly by Arch and Gulf Investment Corporation (“GIC”). Gulf Re targets the six member states of the Gulf Cooperation Council (“GCC”), which include Bahrain, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates. Gulf Re provides property and casualty reinsurance primarily in the member states of the GCC. We account for our investment in Gulf Re, shown as ‘investment in joint venture,’ using the equity method and record our equity in the operating results of Gulf Re in ‘other income (loss).’ We entered into a number of strategic initiatives in the 2014 fourth quarter, including an agreement to acquire complete ownership of Gulf Re, which is currently pending approval by the Dubai Financial Services Authority. To further support Gulf Re’s business in advance of the January 1 renewal season, we entered into a 90% whole account quota share retrocession arrangement of Gulf Re’s net liabilities and a portfolio transfer of all of Gulf Re’s existing business (both unearned premium and loss reserves), effective as of October 1, 2014.

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## Contractual Obligations

The following table provides an analysis of our contractual commitments at December 31, 2014:

	Payment due by period				
	Total	Less than 1 year	1-3 years	4-5 years	More than 5 years
Debt obligations	\$900,000	\$100,000	\$—	\$—	\$800,000
Interest expense on long-term debt obligations	1,175,855	47,770	95,540	95,540	937,005
Operating lease obligations	154,732	23,343	46,209	38,508	46,672
Purchase obligations	23,464	11,721	11,105	638	—
Reserve for losses and loss adjustment expenses, gross (1)	9,036,448	2,402,591	2,717,538	1,409,451	2,506,868
Deposit accounting liabilities (2)	327,384	52,878	73,554	47,465	153,487
Contractholder payables (3)	1,309,192	463,090	453,620	169,885	222,597
Securities lending collateral (4)	50,529	50,529	—	—	—
Unfunded investment commitments (5)	968,923	968,923	—	—	—
Total	\$13,946,527	\$4,120,845	\$3,397,566	\$1,761,487	\$4,666,629

The estimated expected contractual commitments related to the reserves for losses and loss adjustment expenses are presented on a gross basis. It should be noted that until a claim has been presented to us, determined to be valid, (1) quantified and settled, there is no known obligation on an individual transaction basis, and while estimable in the aggregate, the timing and amount contain significant uncertainty. Approximately 66% of our reserves for losses and loss adjustment expenses were incurred but not reported at December 31, 2014.

The estimated expected contractual commitments related to deposit accounting liabilities have been estimated (2) using projected cash flows from the underlying contracts. It should be noted that, due to the nature of such liabilities, the timing and amount contain significant uncertainty.

Certain insurance policies written by our insurance operations feature large deductibles, primarily in construction and national accounts lines. Under such contracts, we are obligated to pay the claimant for the full amount of the (3) claim and are subsequently reimbursed by the policyholder for the deductible amount. In the event we are unable to collect from the policyholder, we would record an increase to losses and loss adjustment expenses related to such policy.

As part of our securities lending program, we loan certain fixed income securities to third parties and receive collateral, primarily in the form of cash. The collateral received is reinvested and is reflected as “Investment of (4) funds received under securities lending agreements, at fair value” or “Securities purchased under agreements to resell using funds received under securities lending agreements.” Such collateral is due back to the third parties at the close of the securities lending transaction.

Unfunded investment commitments are callable by our investment managers. We have assumed that such (5) investments will be funded in the next year but the funding may occur over a longer period of time, due to market conditions and other factors.

Table of Contents**OFF-BALANCE SHEET ARRANGEMENTS**

We are not party to any transaction, agreement or other contractual arrangement to which an entity unconsolidated with us is a party that management believes is reasonably likely to have a current or future effect on our financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources that is material to investors.

**MARKET SENSITIVE INSTRUMENTS AND RISK MANAGEMENT**

Our investment results are subject to a variety of risks, including risks related to changes in the business, financial condition or results of operations of the entities in which we invest, as well as changes in general economic conditions and overall market conditions. We are also exposed to potential loss from various market risks, including changes in equity prices, interest rates and foreign currency exchange rates.

In accordance with the SEC's Financial Reporting Release No. 48, we performed a sensitivity analysis to determine the effects that market risk exposures could have on the future earnings, fair values or cash flows of our financial instruments as of December 31, 2014. Market risk represents the risk of changes in the fair value of a financial instrument and consists of several components, including liquidity, basis and price risks.

The sensitivity analysis performed as of December 31, 2014 presents hypothetical losses in cash flows, earnings and fair values of market sensitive instruments which were held by us on December 31, 2014 and are sensitive to changes in interest rates and equity security prices. This risk management discussion and the estimated amounts generated from the following sensitivity analysis represent forward-looking statements of market risk assuming certain adverse market conditions occur. Actual results in the future may differ materially from these projected results due to actual developments in the global financial markets. The analysis methods used by us to assess and mitigate risk should not be considered projections of future events of losses.

The focus of the SEC's market risk rules is on price risk. For purposes of specific risk analysis, we employ sensitivity analysis to determine the effects that market risk exposures could have on the future earnings, fair values or cash flows of our financial instruments. The financial instruments included in the following sensitivity analysis consist of all of our investments and cash.

**Investment Market Risk**

**Fixed Income Securities.** We invest in interest rate sensitive securities, primarily debt securities. We consider the effect of interest rate movements on the market value of our fixed maturities, fixed maturities pledged under securities lending agreements, short-term investments and certain of our other investments which invest in fixed income securities and the corresponding change in unrealized appreciation. As interest rates rise, the market value of our interest rate sensitive securities falls, and the converse is also true. Based on historical observations, there is a low probability that all interest rate yield curves would shift in the same direction at the same time. Furthermore, in recent months interest rate movements in many credit sectors have exhibited a much lower correlation to changes in U.S. Treasury yields. Accordingly, the actual effect of interest rate movements may differ materially from the amounts set forth in the following tables.

The following table summarizes the effect that an immediate, parallel shift in the interest rate yield curve would have had on the portfolio at December 31, 2014 and 2013:

(U.S. dollars in millions)	Interest Rate Shift in Basis Points				
	-100	-50	-	+50	+100
December 31, 2014					
Total fair value	\$14,753.8	\$14,523.4	\$14,292.1	\$14,067.5	\$13,850.4
Change from base	3.23	% 1.62	%	(1.57)	)% (3.09 )%
Change in unrealized value	\$461.7	\$231.3		\$(224.6	) \$(441.7 )
December 31, 2013					
Total fair value	\$13,338.9	\$13,178.2	\$13,009.5	\$12,839.6	\$12,671.3
Change from base	2.53	% 1.30	%	(1.31)	)% (2.60 )%
Change in unrealized value	\$329.4	\$168.7		\$(169.9	) \$(338.2 )





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In addition, we consider the effect of credit spread movements on the market value of our fixed maturities, fixed maturities pledged under securities lending agreements, short-term investments and certain of our other investments and investment funds accounted for using the equity method which invest in fixed income securities and the corresponding change in unrealized appreciation. As credit spreads widen, the fair value of our fixed income securities falls, and the converse is also true.

The following table summarizes the effect that an immediate, parallel shift in credit spreads in a static interest rate environment would have had on the portfolio at December 31, 2014 and 2013:

(U.S. dollars in millions)	Credit Spread Shift in Basis Points				
	-100	-50	-	+50	+100
December 31, 2014					
Total fair value	\$14,572.5	\$14,446.9	\$14,292.1	\$14,151.2	\$14,012.8
Change from base	1.96	% 1.08	%	(0.99)	)% (1.95)
Change in unrealized value	\$280.4	\$154.8		\$(140.9)	) \$(279.3)
December 31, 2013					
Total fair value	\$13,228.3	\$13,137.9	\$13,009.5	\$12,896.3	\$12,783.0
Change from base	1.68	% 0.99	%	(0.87)	)% (1.74)
Change in unrealized value	\$218.8	\$128.4		\$(113.2)	) \$(226.5)

Another method that attempts to measure portfolio risk is Value-at-Risk (“VaR”). VaR attempts to take into account a broad cross-section of risks facing a portfolio by utilizing relevant securities volatility data skewed towards the most recent months and quarters. VaR measures the amount of a portfolio at risk for outcomes 1.65 standard deviations from the mean based on normal market conditions over a one year time horizon and is expressed as a percentage of the portfolio’s initial value. In other words, 95% of the time, should the risks taken into account in the VaR model perform per their historical tendencies, the portfolio’s loss in any one year period is expected to be less than or equal to the calculated VaR, stated as a percentage of the measured portfolio’s initial value. As of December 31, 2014, our portfolio’s VaR was estimated to be 2.86%, compared to an estimated 3.43% at December 31, 2013.

Equity Securities, Privately Held Securities and Other Investments. Our investment portfolio includes an allocation to equity securities, privately held securities and certain other investments. At December 31, 2014 and 2013, the fair value of our investments in equity securities, privately held securities and certain other investments totaled \$658.2 million and \$606.4 million, respectively. These securities are exposed to price risk, which is the potential loss arising from decreases in fair value. An immediate hypothetical 10% depreciation in the value of each position would reduce the fair value of such investments by approximately \$65.8 million and \$60.6 million at December 31, 2014 and 2013, respectively, and would have decreased book value per common share by approximately \$0.52 and \$0.45, respectively.

Investment-Related Derivatives. Derivative instruments may be used to enhance investment performance, replicate investment positions or manage market exposures and duration risk that would be allowed under our investment guidelines if implemented in other ways. The fair values of those derivatives are based on quoted market prices. See note 11, “Derivative Instruments,” of the notes accompanying our consolidated financial Statements for additional disclosures concerning derivatives. At December 31, 2014, the notional value of the net long position of derivative instruments (excluding to-be-announced mortgage backed securities which are included in the fixed income securities analysis above and foreign currency forward contracts which are included in the foreign currency exchange risk analysis below) was \$3.28 billion, compared to \$812.1 million at December 31, 2013. A 100 basis point depreciation of the underlying exposure to these derivative instruments at December 31, 2014 and 2013 would have resulted in a reduction in net income of approximately \$32.8 million and \$8.1 million, respectively, and would have decreased book value per common share by \$0.26 and \$0.06, respectively. A 100 basis point appreciation of the underlying exposure to these derivative instruments at December 31, 2014 and 2013 would have resulted in an increase in net income of approximately \$32.8 million and \$8.1 million, respectively, and would have increased book value per common share by \$0.26 and \$0.06, respectively.

For further discussion on investment activity, please refer to “—Financial Condition, Liquidity and Capital Resources—Financial Condition—Investable Assets.”



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## Foreign Currency Exchange Risk

Foreign currency rate risk is the potential change in value, income and cash flow arising from adverse changes in foreign currency exchange rates. Through our subsidiaries and branches located in various foreign countries, we conduct our insurance and reinsurance operations in a variety of local currencies other than the U.S. Dollar. We generally hold investments in foreign currencies which are intended to mitigate our exposure to foreign currency fluctuations in our net insurance liabilities. We may also utilize foreign currency forward contracts and currency options as part of our investment strategy. See Note 11, "Derivative Instruments," of the notes accompanying our consolidated financial statements for additional information.

The following table provides a summary of our net foreign currency exchange exposures, as well as foreign currency derivatives in place to manage these exposures, at December 31, 2014 and 2013:

(U.S. dollars in thousands, except per share data)	December 31,	
	2014	2013
Assets, net of insurance liabilities, denominated in foreign currencies, excluding shareholders' equity and derivatives	\$35,372	\$168,352
Shareholders' equity denominated in foreign currencies (1)	336,565	396,106
Net foreign currency forward contracts outstanding (2)	(308,149	) (87,399
Net assets denominated in foreign currencies	\$63,788	\$477,059
Pre-tax impact of a hypothetical 10% appreciation of the U.S. Dollar against foreign currencies:		
Shareholders' equity	\$(6,379	) \$(47,706
Book value per common share	\$(0.05	) \$(0.36
Pre-tax impact of a hypothetical 10% decline of the U.S. Dollar against foreign currencies:		
Shareholders' equity	\$6,379	\$47,706
Book value per common share	\$0.05	\$0.36

(1) Represents net assets held in the foreign currencies of our operating units.

(2) Represents the notional value of outstanding foreign currency forward contracts in U.S. Dollars.

As a result of the current financial and economic environment as well as the potential for additional investment returns, we may not match a portion of our projected liabilities in foreign currencies with investments in the same currencies, which would increase our exposure to foreign currency fluctuations and increase the volatility in our results of operations. Historical observations indicate a low probability that all foreign currency exchange rates would shift against the U.S. Dollar in the same direction and at the same time and, accordingly, the actual effect of foreign currency rate movements may differ materially from the amounts set forth above. For further discussion on foreign exchange activity, please refer to "—Results of Operations."

## Effects of Inflation

We do not believe that inflation has had a material effect on our consolidated results of operations, except insofar as inflation may affect our reserves for losses and loss adjustment expenses and interest rates. The potential exists, after a catastrophe loss, for the development of inflationary pressures in a local economy. The anticipated effects of inflation on us are considered in our catastrophe loss models. The actual effects of inflation on our results cannot be accurately known until claims are ultimately settled.

## ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Reference is made to the information appearing above under the subheading "Market Sensitive Instruments and Risk Management" under the caption "Management's Discussion and Analysis of Financial Condition and Results of Operation," which information is hereby incorporated by reference.

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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Report of Independent Registered Public Accounting Firm  
To the Board of Directors and Shareholders of  
Arch Capital Group Ltd.:

In our opinion, the consolidated financial statements listed in the accompanying index, present fairly, in all material respects, the financial position of Arch Capital Group Ltd. and its subsidiaries (the "Company") at December 31, 2014 and December 31, 2013, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2014 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedules listed in the index appearing under Item 15(a)(2) present fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2014, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements and financial statement schedules, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Annual Report on Internal Control over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on these financial statements, on the financial statement schedules, and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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 (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) 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 (iii) 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/ PricewaterhouseCoopers LLP  
New York, New York  
February 27, 2015



Table of ContentsARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
CONSOLIDATED BALANCE SHEETS

(U.S. dollars in thousands, except share data)

	December 31,	
	2014	2013
Assets		
Investments:		
Fixed maturities available for sale, at fair value (amortized cost: \$10,701,557 and \$9,564,634)	\$ 10,750,770	\$ 9,571,776
Short-term investments available for sale, at fair value (amortized cost: \$801,758 and \$1,477,584)	797,226	1,478,367
Investment of funds received under securities lending, at fair value (amortized cost: \$40,473 and \$97,943)	44,301	100,584
Equity securities available for sale, at fair value (cost: \$562,534 and \$433,275)	658,182	496,824
Other investments available for sale, at fair value (cost: \$264,747 and \$488,687)	296,224	498,310
Investments accounted for using the fair value option	2,435,532	1,221,534
Investments accounted for using the equity method	349,014	244,339
Total investments	15,331,249	13,611,734
Cash	485,702	434,057
Accrued investment income	74,316	66,848
Investment in joint venture (cost: \$100,000)	90,426	104,856
Fixed maturities and short-term investments pledged under securities lending, at fair value	50,802	105,081
Premiums receivable	948,695	753,924
Reinsurance recoverable on unpaid and paid losses and loss adjustment expenses	1,812,845	1,804,330
Contractholder receivables	1,309,192	1,064,246
Prepaid reinsurance premiums	377,078	328,343
Deferred acquisition costs, net	414,525	342,314
Receivable for securities sold	78,170	50,555
Goodwill and intangible assets	109,539	27,319
Other assets	927,004	872,487
Total assets	\$ 22,009,543	\$ 19,566,094
Liabilities		
Reserve for losses and loss adjustment expenses	\$ 9,036,448	\$ 8,824,696
Unearned premiums	2,231,578	1,896,365
Reinsurance balances payable	219,312	196,167
Contractholder payables	1,309,192	1,064,246
Deposit accounting liabilities	327,384	421,297
Senior notes	800,000	800,000
Revolving credit agreement borrowings	100,000	100,000
Securities lending payable	50,529	107,999
Payable for securities purchased	128,413	51,318
Other liabilities	688,041	456,510
Total liabilities	14,890,897	13,918,598
Commitments and Contingencies		
Redeemable noncontrolling interests (1)	219,512	—

Shareholders' Equity		
Non-cumulative preferred shares	325,000	325,000
Common shares (\$0.0033 par, shares issued: 171,672,408 and 169,560,591)	572	565
Additional paid-in capital	383,073	299,517
Retained earnings	6,854,571	6,042,154
Accumulated other comprehensive income, net of deferred income tax	128,856	74,964
Common shares held in treasury, at cost (shares: 44,304,474 and 35,885,707)	(1,562,019 )	(1,094,704 )
Total shareholders' equity available to Arch	6,130,053	5,647,496
Non-redeemable noncontrolling interests (1)	769,081	—
Total shareholders' equity	6,899,134	5,647,496
Total liabilities, noncontrolling interests and shareholders' equity	\$22,009,543	\$19,566,094

(1) See Note 4.

See Notes to Consolidated Financial Statements

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## ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF INCOME

(U.S. dollars in thousands, except share data)

	Year Ended December 31,		
	2014	2013	2012
Revenues			
Net premiums written	\$3,891,938	\$3,351,367	\$3,052,235
Change in unearned premiums	(298,190 )	(205,415 )	(117,095 )
Net premiums earned	3,593,748	3,145,952	2,935,140
Net investment income	302,585	267,219	294,895
Net realized gains	102,917	74,018	194,228
Other-than-temporary impairment losses	(30,470 )	(3,961 )	(12,175 )
Less investment impairments recognized in other comprehensive income, before taxes	320	175	787
Net impairment losses recognized in earnings	(30,150 )	(3,786 )	(11,388 )
Other underwriting income	10,142	7,639	8,090
Equity in net income of investment funds accounted for using the equity method	19,883	35,701	73,510
Other income (loss)	(10,252 )	(586 )	(12,094 )
Total revenues	3,988,873	3,526,157	3,482,381
Expenses			
Losses and loss adjustment expenses	1,919,250	1,679,424	1,861,277
Acquisition expenses	657,262	564,103	508,884
Other operating expenses	606,224	500,730	465,353
Interest expense	45,634	27,060	28,525
Net foreign exchange (gains) losses	(83,744 )	12,335	28,955
Total expenses	3,144,626	2,783,652	2,892,994
Income before income taxes	844,247	742,505	589,387
Income taxes:			
Current tax expense	30,550	32,696	9,004
Deferred tax (benefit) expense	(7,563 )	78	(13,014 )
Income tax expense (benefit)	22,987	32,774	(4,010 )
Net income	\$821,260	\$709,731	\$593,397
Amounts attributable to noncontrolling interests (1)	13,095	—	—
Net income available to Arch	834,355	709,731	593,397
Preferred dividends	(21,938 )	(21,938 )	(25,079 )
Loss on repurchase of preferred shares	—	—	(10,612 )
Net income available to Arch common shareholders	\$812,417	\$687,793	\$557,706
Net income per common share			
Basic	\$6.21	\$5.24	\$4.15
Diluted	\$6.02	\$5.07	\$4.03
Weighted average common shares and common share			

equivalents outstanding			
Basic	130,817,610	131,355,392	134,446,158
Diluted	134,922,322	135,777,183	138,258,847

(1) See Note 4.

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ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
 CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME  
 (U.S. dollars in thousands)

	Year Ended December 31,		
	2014	2013	2012
Comprehensive Income			
Net income	\$821,260	\$709,731	\$593,397
Other comprehensive income (loss), net of deferred income tax			
Unrealized appreciation (decline) in value of available-for-sale investments:			
Unrealized holding gains (losses) arising during period	146,330	(176,403)	) 273,931
Portion of other-than-temporary impairment losses recognized in other comprehensive income, net of deferred income tax	(320)	) (175)	) (787)
Reclassification of net realized gains, net of income taxes, included in net income	(65,104)	) (32,686)	) (157,824)
Foreign currency translation adjustments	(27,014)	) (2,789)	) 17,774
Comprehensive income	875,152	497,678	726,491
Amounts attributable to noncontrolling interests (1)	13,095	—	—
Comprehensive income available to Arch	\$888,247	\$497,678	\$726,491

(1) See Note 4.

See Notes to Consolidated Financial Statements

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ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY  
(U.S. dollars in thousands)

	Year Ended December 31,		
	2014	2013	2012
<b>Non-cumulative preferred shares</b>			
Balance at beginning of year	\$325,000	\$325,000	\$325,000
Shares issued - Series C	—	—	325,000
Shares repurchased - Series A and B	—	—	(325,000)
Balance at end of year	325,000	325,000	325,000
<b>Common shares</b>			
Balance at beginning of year	565	561	549
Common shares issued, net	7	4	12
Balance at end of year	572	565	561
<b>Additional paid-in capital</b>			
Balance at beginning of year	299,517	227,778	161,419
Common shares issued, net	9,590	8,237	6,823
Issue costs on Series C preferred shares	—	—	(9,398)
Reversal of issue costs on repurchase of preferred shares	—	—	10,612
Exercise of stock options	18,662	10,561	14,218
Amortization of share-based compensation	54,789	49,237	42,303
Other	515	3,704	1,801
Balance at end of year	383,073	299,517	227,778
<b>Retained earnings</b>			
Balance at beginning of year	6,042,154	5,354,361	4,796,655
Net income	821,260	709,731	593,397
Amounts attributable to noncontrolling interests (1)	13,095	—	—
Preferred share dividends	(21,938)	(21,938)	(25,079)
Loss on repurchase of preferred shares	—	—	(10,612)
Balance at end of year	6,854,571	6,042,154	5,354,361
<b>Accumulated other comprehensive income</b>			
Balance at beginning of year	74,964	287,017	153,923
<b>Unrealized appreciation (decline) in value of available-for-sale investments, net of deferred income tax:</b>			
Balance at beginning of year	80,692	289,956	174,636
Unrealized holding gains (losses) arising during period, net of reclassification adjustment	81,226	(209,089)	116,107
Portion of other-than-temporary impairment losses recognized in other comprehensive income, net of deferred income tax	(320)	(175)	(787)
Balance at end of year	161,598	80,692	289,956
<b>Foreign currency translation adjustments, net of deferred income tax:</b>			
Balance at beginning of year	(5,728)	(2,939)	(20,713)
Foreign currency translation adjustments	(27,014)	(2,789)	17,774
Balance at end of year	(32,742)	(5,728)	(2,939)
Balance at end of year	128,856	74,964	287,017

Common shares held in treasury, at cost			
Balance at beginning of year	(1,094,704 )	(1,025,839 )	(845,472 )
Shares repurchased for treasury	(467,315 )	(68,865 )	(180,367 )
Balance at end of year	(1,562,019 )	(1,094,704 )	(1,025,839 )
Total shareholders' equity available to Arch	6,130,053	5,647,496	5,168,878
Non-redeemable noncontrolling interests (1)	769,081	—	—
Total shareholders' equity	\$6,899,134	\$5,647,496	\$5,168,878

(1) See Note 4.

See Notes to Consolidated Financial Statements

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ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(U.S. dollars in thousands)

	Year Ended December 31,		
	2014	2013	2012
<b>Operating Activities</b>			
Net income	\$821,260	\$709,731	\$593,397
Adjustments to reconcile net income to net cash provided by operating activities:			
Net realized gains	(127,511 )	(78,084 )	(199,547 )
Net impairment losses recognized in earnings	30,150	3,786	11,388
Equity in net income or loss of investment funds accounted for using the equity method and other income or loss	13,340	52,824	(43,633 )
Share-based compensation	54,789	49,237	42,303
Changes in:			
Reserve for losses and loss adjustment expenses, net of unpaid losses and loss adjustment expenses recoverable	156,211	(29,393 )	395,901
Unearned premiums, net of prepaid reinsurance premiums	298,190	205,415	117,095
Premiums receivable	(217,035 )	(60,224 )	(120,380 )
Deferred acquisition costs, net	(81,584 )	(75,948 )	(34,371 )
Reinsurance balances payable	26,699	6,830	42,740
Other liabilities	101,757	(29,989 )	41,049
Other items	(39,136 )	96,683	75,661
Net Cash Provided By Operating Activities	1,037,130	850,868	921,603
<b>Investing Activities</b>			
Purchases of fixed maturity investments	(28,745,279)	(18,174,988)	(17,568,592)
Purchases of equity securities	(520,817 )	(535,857 )	(268,999 )
Purchases of other investments	(2,257,481 )	(1,326,729 )	(1,000,049 )
Proceeds from sales of fixed maturity investments	26,823,192	17,196,614	16,366,306
Proceeds from sales of equity securities	411,362	462,787	313,617
Proceeds from sales, redemptions and maturities of other investments	1,643,000	1,162,707	443,630
Proceeds from redemptions and maturities of fixed maturity investments	762,995	731,708	1,115,594
Net sales (purchases) of short-term investments	577,126	(750,613 )	185,919
Change in investment of securities lending collateral	57,470	(55,643 )	6,190
Purchase of business, net of cash acquired	(237,106 )	—	28,948
Purchases of furniture, equipment and other assets	(19,883 )	(17,499 )	(18,532 )
Net Cash Used For Investing Activities	(1,505,421 )	(1,307,513 )	(395,968 )
<b>Financing Activities</b>			
Proceeds from issuance of Series C preferred shares, net	—	—	315,763
Repurchase of Series A and B preferred shares	—	—	(325,000 )
Purchases of common shares under share repurchase program	(454,137 )	(57,796 )	(172,056 )
Proceeds from common shares issued, net	6,827	3,051	7,033
Proceeds from borrowings	—	494,228	—
Repayments of borrowings	—	—	(310,868 )
Change in securities lending collateral	(57,470 )	55,643	(6,190 )
Third party investment in non-redeemable noncontrolling interests	796,903	—	—
Third party investment in redeemable noncontrolling interests	219,233	—	—

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Dividends paid to redeemable noncontrolling interests	(14,448	) —	—
Other	64,973	50,830	6,664
Preferred dividends paid	(21,938	) (21,938	) (28,381 )
Net Cash Provided By (Used For) Financing Activities	539,943	524,018	(513,035 )
Effects of exchange rate changes on foreign currency cash	(20,007	) (4,357	) 6,742
Increase in cash	51,645	63,016	19,342
Cash beginning of year	434,057	371,041	351,699
Cash end of year	\$485,702	\$434,057	\$371,041
Income taxes paid (recovered)	\$20,923	\$15,288	\$(1,801 )
Interest paid	\$46,429	\$23,733	\$29,133

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ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. General

Arch Capital Group Ltd. (“ACGL”) is a Bermuda public limited liability company which provides insurance and reinsurance on a worldwide basis through its wholly owned subsidiaries. ACGL was formed in September 2000 and became the sole shareholder of Arch Capital Group (U.S.) Inc. (“Arch-U.S.”) pursuant to an internal reorganization transaction completed in November 2000. In October 2001, the Company launched an underwriting initiative to meet current and future demand in the global insurance and reinsurance markets that included the recruitment of new management teams and an equity capital infusion of \$763.2 million.

On January 30, 2014, the Company acquired CMG Mortgage Insurance Company and its affiliated mortgage insurance companies (together, “CMG Entities”) and the mortgage insurance platform and related assets from PMI Mortgage Insurance Co., in Rehabilitation (“PMI”) (see Note 2).

On March 20, 2014, the Company acquired approximately 11% of Watford Holdings Ltd.’s common equity and a warrant to purchase additional common equity for \$100 million. Watford Holdings Ltd. is the parent of Watford Re Ltd., a newly-formed multi-line Bermuda reinsurance company (together with Watford Holdings Ltd., “Watford Re”). Watford Re is considered a variable interest entity (“VIE”) and the Company concluded that it is the primary beneficiary of Watford Re. As such, the results of Watford Re are included in the Company’s consolidated financial statements (see Note 4).

As used herein, the “Company” means ACGL and its subsidiaries. Similarly, “Common Shares” means the common shares, par value \$0.0033, of ACGL. The Company has reclassified the presentation of certain prior year information to conform to the current presentation. Such reclassifications had no effect on the Company’s net income, shareholders’ equity or cash flows. Tabular amounts are in U.S. Dollars in thousands, except share amounts, unless otherwise noted.

2. Business Acquired

On January 30, 2014, the Company’s U.S.-based subsidiaries completed the acquisition of the CMG Entities through a stock purchase agreement (“SPA”) from its previous owners, PMI, which has been in rehabilitation under the receivership of the Arizona Department of Insurance since 2011, and CMFG Life Insurance Company (“CUNA Mutual”). In addition, the Company entered into a distribution agreement with CUNA Mutual and a reinsurance agreement with an affiliate of CUNA Mutual. CMG Mortgage Insurance Company has been renamed “Arch Mortgage Insurance Company” (“Arch MI U.S.”). As part of the transaction, Arch MI U.S. obtained approval as an eligible mortgage insurer from Federal National Mortgage Association and Federal Home Loan Mortgage Corporation (each a government sponsored enterprise or “GSE”), subject to maintaining certain ongoing requirements.

In addition, through an asset purchase agreement (“APA”) with PMI, the Company acquired the mortgage insurance operating platform of PMI, 100% of the capital stock of PMI Mortgage Assurance Co., a mortgage insurance company licensed in all 50 states (renamed Arch Mortgage Guaranty Company), and entered into a quota share reinsurance agreement pursuant to which Arch Reinsurance Ltd. (“Arch Re Bermuda”) agreed to provide 100% quota share indemnity reinsurance to PMI for all certificates of insurance that were issued by PMI between and including January 1, 2009 and December 31, 2011 that were not in default as of an agreed upon effective date. Other than this quota share, no PMI legacy exposures were assumed in the transaction. As part of the transaction, the Company entered into a services agreement with PMI to provide certain necessary operational services to administer the run-off of PMI’s legacy business at the direction of PMI. Arch MI U.S. also entered into a quota share reinsurance agreement whereby it will cede to PMI 20% of all new primary flow mortgage insurance business post-closing (both credit union and non-credit union business) on the first \$25 billion in original loan amounts, on a funds-withheld basis.

The completion of the SPA and APA transactions enabled the Company to enter the U.S. mortgage insurance marketplace and serve all lenders nationwide. The arrangements with CUNA Mutual also provided a seamless transition and enabled the Company to provide uninterrupted access and services to the credit union marketplace.



At closing, the Company paid aggregate consideration of \$160.6 million (80% of the actual closing date book value of the CMG Entities) under the SPA and \$84.6 million under the APA. Additionally, the SPA contains provisions for contingent consideration payments, subject to an overall maximum payment of 150% of closing book value of the pre-closing portfolio of the CMG Entities as re-calculated over an earn-out period and payable at the third, fifth and sixth anniversaries after closing (subject to a one time extension period of one to three years at the sellers' discretion). The maximum amount of contingent consideration payments is \$136.9 million. To the extent that the adjusted book value of the

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

CMG Entities drops below the cumulative amount paid by the Company, no additional payments would be due. To determine the fair value of the contingent consideration liability, the Company estimated future payments using a weighted average cost of capital approach at a rate of return of 15% which reflects the industry-weighted average rate of return on debt and equity as required by market participants. The fair value of the contingent consideration liability was \$41.8 million at closing. The contingent consideration liability, which is included in 'other liabilities' in the consolidated balance sheets, is remeasured at fair value at each balance sheet date (\$61.8 million at December 31, 2014) until the contingency is resolved with changes in fair value recognized in 'net realized gains (losses).'

The following table summarizes the fair value of net assets acquired and allocation of purchase price, measured as of the acquisition date:

	Total	Useful Life
Purchase price		
Cash paid	\$245,157	
Contingent consideration liability	41,762	
Total purchase price (a)	\$286,919	
Assets acquired		
Cash	\$9,579	
Investments, at fair value	312,093	
Intangible asset -- acquired insurance contracts	46,473	5 years
Intangible asset -- operating platform	29,900	5 years
Intangible asset -- favorable lease contract	1,056	5 years
Intangible asset -- insurance licenses	16,858	Indefinite
Other assets acquired	21,691	
Total assets acquired	437,650	
Liabilities acquired		
Reserves for losses and loss adjustment expenses	\$121,572	
Unearned premiums	26,261	
Intangible liability -- unfavorable service contract	9,533	9 years
Other liabilities acquired	7,217	
Total liabilities acquired	164,583	
Net assets acquired (b)	\$273,067	
Goodwill (a)-(b)	\$13,852	

From the acquisition date to December 31, 2014, the Company recorded amortization expense of \$20.1 million related to net intangible assets acquired. The Company recognized goodwill of \$13.9 million that is primarily attributed to PMI's assembled workforce, access to the mortgage insurance market and additional synergies to be realized in the future. Under U.S. tax principles, which differentiate between taxable and non-taxable business combinations, the Company estimates that \$48.0 million of goodwill is expected to be deductible for tax purposes.

The Company includes the operations of Arch MI U.S. in its mortgage segment (see Note 5).

## 3. Significant Accounting Policies

## (a) Basis of Presentation

The consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (“GAAP”) and include the accounts of ACGL and its subsidiaries, including Arch Re Bermuda, Arch Reinsurance Company (“Arch Re U.S.”), Arch-U.S., Arch Insurance Company, Arch Specialty Insurance Company, Arch Excess & Surplus Insurance Company, Arch Indemnity Insurance Company, Arch Insurance Canada Ltd. (“Arch Insurance Canada”), Arch Risk Transfer Services Ltd., Arch Reinsurance Europe Underwriting Limited (“Arch Re Europe”), Arch MI U.S., Arch Mortgage Guaranty Company, Arch Mortgage Insurance Limited (“Arch MI Europe”), Arch Insurance Company (Europe) Limited (“Arch Insurance Company Europe”), Lloyd’s of London syndicate 2012 and related companies (“Arch Syndicate 2012”) and Watford Re. All significant intercompany transactions and balances have been

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ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

eliminated in consolidation. The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates and assumptions.

(b) Premium Revenues and Related Expenses

**Insurance.** Insurance premiums written are generally recorded at the policy inception and are primarily earned on a pro rata basis over the terms of the policies for all products, usually 12 months. Premiums written include estimates in the Company's programs, specialty lines, lenders products business and for participation in involuntary pools. Such premium estimates are derived from multiple sources which include the historical experience of the underlying business, similar business and available industry information. Unearned premium reserves represent the portion of premiums written that relates to the unexpired terms of in-force insurance policies.

**Reinsurance.** Reinsurance premiums written include amounts reported by brokers and ceding companies, supplemented by the Company's own estimates of premiums where reports have not been received. The determination of premium estimates requires a review of the Company's experience with the ceding companies, familiarity with each market, the timing of the reported information, an analysis and understanding of the characteristics of each line of business, and management's judgment of the impact of various factors, including premium or loss trends, on the volume of business written and ceded to the Company. On an ongoing basis, the Company's underwriters review the amounts reported by these third parties for reasonableness based on their experience and knowledge of the subject class of business, taking into account the Company's historical experience with the brokers or ceding companies. In addition, reinsurance contracts under which the Company assumes business generally contain specific provisions which allow the Company to perform audits of the ceding company to ensure compliance with the terms and conditions of the contract, including accurate and timely reporting of information. Based on a review of all available information, management establishes premium estimates where reports have not been received. Premium estimates are updated when new information is received and differences between such estimates and actual amounts are recorded in the period in which estimates are changed or the actual amounts are determined.

Reinsurance premiums written are recorded based on the type of contracts the Company writes. Premiums on the Company's excess of loss and pro rata reinsurance contracts are estimated when the business is underwritten. For excess of loss contracts, premiums are recorded as written based on the terms of the contract. Estimates of premiums written under pro rata contracts are recorded in the period in which the underlying risks are expected to incept and are based on information provided by the brokers and the ceding companies. For multi-year reinsurance treaties which are payable in annual installments, generally, only the initial annual installment is included as premiums written at policy inception due to the ability of the reinsured to commute or cancel coverage during the term of the policy. The remaining annual installments are included as premiums written at each successive anniversary date within the multi-year term.

Reinstatement premiums for the Company's insurance and reinsurance operations are recognized at the time a loss event occurs, where coverage limits for the remaining life of the contract are reinstated under pre-defined contract terms. Reinstatement premiums, if obligatory, are fully earned when recognized. The accrual of reinstatement premiums is based on an estimate of losses and loss adjustment expenses, which reflects management's judgment.

Premium estimates are reviewed by management at least quarterly. Such review includes a comparison of actual reported premiums to expected ultimate premiums along with a review of the aging and collection of premium estimates. Based on management's review, the appropriateness of the premium estimates is evaluated, and any adjustment to these estimates is recorded in the period in which it becomes known. Adjustments to premium estimates could be material and such adjustments could directly and significantly impact earnings favorably or unfavorably in

the period they are determined because the estimated premium may be fully or substantially earned. A significant portion of amounts included as premiums receivable, which represent estimated premiums written, net of commissions, are not currently due based on the terms of the underlying contracts.

Reinsurance premiums written, irrespective of the class of business, are generally earned on a pro rata basis over the terms of the underlying policies or reinsurance contracts. Contracts and policies written on a “losses occurring” basis cover claims that may occur during the term of the contract or policy, which is typically 12 months. Accordingly, the premium is earned evenly over the term. Contracts which are written on a “risks attaching” basis cover claims which attach to the underlying insurance policies written during the terms of such contracts. Premiums earned on such contracts usually extend

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beyond the original term of the reinsurance contract, typically resulting in recognition of premiums earned over a 24-month period. Certain of the Company's reinsurance contracts include provisions that adjust premiums or acquisition expenses based upon the experience under the contracts. Premiums written and earned, as well as related acquisition expenses, are recorded based upon the projected experience under such contracts.

The Company also writes certain reinsurance business that is intended to provide insurers with risk management solutions that complement traditional reinsurance. Under these contracts, the Company assumes a measured amount of insurance risk in exchange for an anticipated margin, which is typically lower than on traditional reinsurance contracts. The terms and conditions of these contracts may include additional or return premiums based on loss experience, loss corridors, sublimits and caps. Examples of such business include aggregate stop-loss coverages, financial quota share coverages and multi-year retrospectively rated excess of loss coverages. If these contracts are deemed to transfer risk, they are accounted for as reinsurance.

**Mortgage.** Mortgage guaranty insurance policies are contracts that are generally non-cancelable by the insurer, are renewable at a fixed price, and provide for payment of premiums on a monthly, annual or single basis. Upon renewal, the Company is not able to re-underwrite or re-price its policies. Consistent with industry accounting practices, premiums written on a monthly basis are earned as coverage is provided. Premiums written on an annual basis are amortized on a monthly pro rata basis over the year of coverage. Primary mortgage insurance premiums written on policies covering more than one year are referred to as single premiums. A portion of the revenue from single premiums is recognized in premiums earned in the current period, and the remaining portion is deferred as unearned premiums and earned over the estimated expiration of risk of the policy. If single premium policies related to insured loans are canceled due to repayment by the borrower and the policy is a non-refundable product, the remaining unearned premium related to each canceled policy is recognized as earned premium upon notification of the cancellation.

Unearned premiums represent the portion of premiums written that is applicable to the estimated unexpired risk of insured loans. A portion of premium payments may be refundable if the insured cancels coverage, which generally occurs when the loan is repaid, the loan amortizes to a sufficiently low amount to trigger a lender permitted or legally required cancellation, or the value of the property has increased sufficiently in accordance with the terms of the contract. Premium refunds reduce premiums earned in the consolidated statements of income. Generally, only unearned premiums are refundable. However, when the Company pays a claim on a delinquent loan, all servicer paid premiums received on the delinquent loan covering any period after the default date will be refunded, in accordance with the terms of the contract.

**Acquisition Costs.** Acquisition expenses and other expenses related to the Company's underwriting operations that vary with, and are directly related to, the successful acquisition or renewal of business are deferred and amortized based on the type of contract. For property and casualty insurance and reinsurance contracts, deferred acquisition costs are amortized over the period in which the related premiums are earned. Consistent with mortgage insurance industry accounting practice, amortization of acquisition costs related to the mortgage insurance contracts for each underwriting year's book of business is recorded in proportion to estimated gross profits. Estimated gross profits are comprised of earned premiums and losses and loss adjustment expenses. For each underwriting year, the Company estimates the rate of amortization to reflect actual experience and any changes to persistency or loss development.

Acquisition expenses, net of ceding commissions received from reinsurers, consist principally of commissions and premium taxes paid to obtain the Company's business. Other operating expenses also include expenses that vary with, and are directly related to, the successful acquisition of business. Deferred acquisition costs are carried at their estimated realizable value and take into account anticipated losses and loss adjustment expenses, based on historical and current experience, and anticipated investment income.

A premium deficiency occurs if the sum of anticipated losses and loss adjustment expenses, unamortized acquisition costs and maintenance costs exceed unearned premiums (including expected future premiums) and anticipated investment income. A premium deficiency reserve (“PDR”) is recorded by charging any unamortized acquisition costs to expense to the extent required in order to eliminate the deficiency. If the premium deficiency exceeds unamortized acquisition costs then a liability is accrued for the excess deficiency.

To assess the need for a PDR on mortgage exposures, the Company develops loss projections based on modeled loan defaults related to its current policies in force. This projection is based on recent trends in default experience, severity and rates of defaulted loans moving to claim, as well as recent trends in the rate at which loans are prepaid. Evaluating the expected profitability of the Company’s existing mortgage insurance business and the need for a PDR for its mortgage

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business involves significant reliance upon assumptions and estimates with regard to the likelihood, magnitude and timing of potential losses and premium revenues.

No premium deficiency charges were recorded by the Company during 2014, 2013 or 2012.

(c) Deposit Accounting

Certain assumed reinsurance contracts, which pursuant to Financial Accounting Standards Board (“FASB”) guidance regarding the accounting and reporting for reinsurance and short-duration and long-duration contracts, that are deemed not to transfer insurance risk, are accounted for using the deposit method of accounting as prescribed in the FASB guidance. However, it is possible that the Company could incur financial losses on such contracts. Management exercises significant judgment in the assumptions used in determining whether assumed contracts should be accounted for as reinsurance contracts or deposit contracts. Under the FASB guidance, for those contracts that contain only significant underwriting risk, the estimated profit margin is deferred and amortized over the contract period and such amount is included in the Company’s underwriting results. When the estimated profit margin is explicit, the margin is reflected as other underwriting income and any adverse financial results on such contracts are reflected as incurred losses. When the estimated profit margin is implicit, the margin is reflected as an offset to paid losses and any adverse financial results on such contracts are reflected as incurred losses. Additional judgments are required when applying the accounting guidance with respect to the revenue recognition criteria for contracts deemed to transfer only significant underwriting risk. For those contracts that contain only significant timing risk, an accretion rate is established at inception of the contract based on actuarial estimates whereby the deposit accounting liability is increased to the estimated amount payable over the contract term. The accretion on the deposit is based on the expected rate of return required to fund the expected future payment obligations. Periodically the Company reassesses the estimated ultimate liability and the related expected rate of return. The accretion of the deposit accounting liability as well as changes to the estimated ultimate liability and the accretion rate are reflected as part of interest expense in the Company’s results of operations.

Deposit accounting liabilities totaled \$327.4 million and \$421.3 million, respectively, at December 31, 2014 and 2013. Under some of these contracts, the ceding company retains the related assets on a funds-held basis. In those instances, the Company records the asset as a deposit accounting asset. Deposit accounting assets of \$284.4 million and \$370.5 million, respectively, at December 31, 2014 and 2013 are included in “Other assets” on the Company’s balance sheet. Interest income produced by those assets are recorded as part of net investment income in the Company’s results of operations.

(d) Retroactive Accounting

Retroactive reinsurance reimburses a ceding company for liabilities incurred as a result of past insurable events covered by the underlying policies reinsured. In certain instances, reinsurance contracts cover losses both on a prospective basis and on a retroactive basis and, accordingly, the Company bifurcates the prospective and retrospective elements of these reinsurance contracts and accounts for each element separately. Underwriting income generated in connection with retroactive reinsurance contracts is deferred and amortized into income over the settlement period while losses are charged to income immediately. Subsequent changes in estimated or actual cash flows under such retroactive reinsurance contracts are accounted for by adjusting the previously deferred amount to the balance that would have existed had the revised estimate been available at the inception of the reinsurance transaction, with a corresponding charge or credit to income.

(e) Reinsurance Ceded

In the normal course of business, the Company purchases reinsurance to increase capacity and to limit the impact of individual losses and events on its underwriting results by reinsuring certain levels of risk with other insurance enterprises or reinsurers. The Company uses pro rata, excess of loss and facultative reinsurance contracts. Reinsurance ceding commissions are recognized as a reduction to acquisition costs on a pro rata basis over the period of risk while



the portion of such commissions that will be earned in the future is deferred. The accompanying consolidated statement of income reflects premiums and losses and loss adjustment expenses and acquisition costs, net of reinsurance ceded. See Note 7 for information on the Company's reinsurance usage. Ceded unearned premiums are reported as prepaid reinsurance premiums and estimated amounts of reinsurance recoverable on unpaid losses are reported as unpaid losses and loss adjustment expenses recoverable. Reinsurance premiums ceded and unpaid losses and loss adjustment expenses recoverable are estimated in a manner consistent with that of the original policies issued and the terms of the reinsurance contracts. If the

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reinsurers are unable to satisfy their obligations under the agreements, the Company's insurance or reinsurance subsidiaries would be liable for such defaulted amounts.

(f) Cash

Cash includes cash equivalents, which are investments with original maturities of three months or less that are not managed by external or internal investment advisors.

(g) Investments

The Company currently classifies substantially all of its fixed maturity investments, equity securities and short-term investments as "available for sale" and, accordingly, they are carried at estimated fair value (also known as fair value) with the changes in fair value recorded as an unrealized gain or loss component of accumulated other comprehensive income in shareholders' equity. The fair value of fixed maturity securities and equity securities is generally determined from quotations received from nationally recognized pricing services, or when such prices are not available, by reference to broker or underwriter bid indications. Short-term investments comprise securities due to mature within one year of the date of issue. Short-term investments include certain cash equivalents which are part of investment portfolios under the management of external and internal investment managers.

The Company participates in a securities lending program as a mechanism for generating additional interest income on its fixed income portfolio. Under the security lending agreements, certain of its fixed income portfolio securities are loaned to third parties, primarily major brokerage firms, for short periods of time through a lending agent. Such securities have been reclassified as "Fixed maturities and short-term investments pledged under securities lending agreements, at fair value." The Company maintains legal control over the securities it lends, retains the earnings and cash flows associated with the loaned securities and receives a fee from the borrower for the temporary use of the securities. Collateral received, primarily in the form of cash, is required at a rate of 102% of the fair value of the loaned securities including accrued investment income and is monitored and maintained by the lending agent. Such collateral is reinvested and is reflected as "Investment of funds received under securities lending agreements, at fair value."

The Company's investment portfolio includes certain funds that, due to their ownership structure, are accounted for by the Company using the equity method. In applying the equity method, these investments are initially recorded at cost and are subsequently adjusted based on the Company's proportionate share of the net income or loss of the funds (which include changes in the fair value of the underlying securities in the funds). Such investments are generally recorded on a one to three month lag based on the availability of reports from the investment funds. Changes in the carrying value of such investments are recorded in net income as "Equity in net income (loss) of investment funds accounted for using the equity method." As such, fluctuations in the carrying value of the investment funds accounted for using the equity method may increase the volatility of the Company's reported results of operations.

Other investments include funds and separately managed accounts with holdings in Asian and emerging markets, fixed maturities, term loans and other investment strategies. The fair value for certain of the Company's other investments are determined using net asset values ("NAVs") as advised by external fund managers. The NAV is based on the fund manager's valuation of the underlying holdings in accordance with the fund's governing documents. Certain of the funds are accounted for as available for sale equity securities, regardless of the nature of the investments held within the fund.

The Company elected to carry certain fixed maturity securities, equity securities and other investments at fair value under the fair value option afforded by accounting guidance regarding the fair value option for financial assets and liabilities. Changes in fair value of investments accounted for using the fair value option are included in "Net realized gains (losses)." The primary reasons for electing the fair value option were to address simplification and cost-benefit considerations.

The Company invests in limited partner equity interests issued by third party variable interest entities ("VIE"). Such amounts are included in investments accounted for using the equity method, other investments available for sale and investments accounted for using the fair value option. A VIE refers to entities that have characteristics such as (i)

insufficient equity at risk to allow the entity to finance its activities without additional financial support or (ii) instances where the equity investors, as a group, do not have the characteristic of a controlling financial interest. If the Company is determined to be the primary beneficiary, it is required to consolidate the VIE. The primary beneficiary is defined as the variable interest holder that is determined to have the controlling financial interest as a result of having both (i) the power to direct the activities of a VIE that most significantly impact the economic performance of the VIE and (ii) the obligation

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to absorb losses or right to receive benefits from the VIE that could potentially be significant to the VIE. At inception of the VIE as well as on an ongoing basis, the Company determines whether it is the primary beneficiary based on an analysis of the Company's level of involvement in the VIE, the contractual terms, and the overall structure of the VIE. The Company's maximum exposure to loss with respect to these investments is limited to the investment carrying amounts reported in the Company's consolidated balance sheet and any unfunded commitment.

The Company performs quarterly reviews of its investments to determine whether declines in fair value below the cost basis are considered other-than-temporary in accordance with applicable accounting guidance regarding the recognition and presentation of other-than-temporary impairments ("OTTI"). The process of determining whether a security is other-than-temporarily impaired requires judgment and involves analyzing many factors. These factors include (i) an analysis of the liquidity, business prospects and overall financial condition of the issuer, (ii) the time period in which there was a significant decline in value, (iii) the significance of the decline and (iv) the analysis of specific credit events. The Company evaluates the unrealized losses of its equity securities by issuer and forecasts a reasonable period of time by which the fair value of the securities would increase and the Company would recover its cost. If the Company is unable to forecast a reasonable period of time in which to recover the cost of its equity securities, a net impairment loss in earnings equivalent to the entire unrealized loss is recognized.

When there are credit-related losses associated with debt securities for which the Company does not have an intent to sell and it is more likely than not that it will not be required to sell the security before recovery of its cost basis, the amount of the OTTI related to a credit loss is recognized in earnings and the amount of the OTTI related to other factors (e.g., interest rates, market conditions, etc.) is recorded as a component of other comprehensive income (loss). The amount of the credit loss of an impaired debt security is the difference between the amortized cost and the greater of (i) the present value of expected future cash flows and (ii) the fair value of the security. In instances where no credit loss exists but it is more likely than not that the Company will have to sell the debt security prior to the anticipated recovery, the decline in fair value below amortized cost is recognized as an OTTI in earnings. In periods after the recognition of an OTTI on debt securities, the Company accounts for such securities as if they had been purchased on the measurement date of the OTTI at an amortized cost basis equal to the previous amortized cost basis less the OTTI recognized in earnings. For debt securities for which OTTI were recognized in earnings, the difference between the new amortized cost basis and the cash flows expected to be collected will be accreted or amortized into net investment income. See Note 8, "Investment Information—Other-Than-Temporary Impairments" for additional information. Net investment income includes interest and dividend income together with amortization of market premiums and discounts and is net of investment management and custody fees. Anticipated prepayments and expected maturities are used in applying the interest method for certain investments such as mortgage and other asset-backed securities. When actual prepayments differ significantly from anticipated prepayments, the effective yield is recalculated to reflect actual payments to date and anticipated future payments. The net investment in such securities is adjusted to the amount that would have existed had the new effective yield been applied since the acquisition of the security. Such adjustments, if any, are included in net investment income when determined. Equity in net income (loss) of investment funds accounted for using the equity method includes changes in the fair value of certain alternative investments accounted for under the equity method.

Investment gains or losses realized on the sale of investments, except for certain fund investments, are determined on a first-in, first-out basis and are reflected in net income. Investments gains or losses realized on the sale of certain fund investments are determined on an average cost basis. Unrealized appreciation or decline in the value of securities, which are carried at fair value, is excluded from net income and recorded as a separate component of accumulated other comprehensive income, net of applicable deferred income tax.

**(h) Derivative Instruments**

The Company recognizes all derivative instruments, including embedded derivative instruments, at fair value in the Consolidated Balance Sheets. The Company employs the use of derivative instruments within its operations to mitigate risks arising from assets and liabilities held in foreign currencies as well as part of its overall investment

strategy. For such instruments, changes in assets and liabilities measured at fair value are recorded as “Net realized gains” in the consolidated statements of income. In addition, the Company’s derivative instruments include amounts related to underwriting activities where an insurance or reinsurance contract meets the accounting definition of a derivative instrument. For such contracts, changes in fair value are reflected in “Other underwriting income” in the consolidated statements of income as the underlying contract originates from the Company’s underwriting operations. For the periods ended 2014, 2013, and 2012,

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the Company did not designate any derivative instruments as hedges under the relevant accounting guidance. See Note 11 for information on the Company's derivative instruments.

(i) Reserves for Losses and Loss Adjustment Expenses

**Insurance and Reinsurance.** The reserve for losses and loss adjustment expenses consists of estimates of unpaid reported losses and loss adjustment expenses and estimates for losses incurred but not reported. The reserve for unpaid reported losses and loss adjustment expenses, established by management based on reports from ceding companies and claims from insureds, excludes estimates of amounts related to losses under high deductible policies, and represents the estimated ultimate cost of events or conditions that have been reported to or specifically identified by the Company. Such reserves are supplemented by management's estimates of reserves for losses incurred for which reports or claims have not been received. The Company's reserves are based on a combination of reserving methods, incorporating both Company and industry loss development patterns. The Company selects the initial expected loss and loss adjustment expense ratios based on information derived by its underwriters and actuaries during the initial pricing of the business, supplemented by industry data where appropriate. Such ratios consider, among other things, rate changes and changes in terms and conditions that have been observed in the market. These estimates are reviewed regularly and, as experience develops and new information becomes known, the reserves are adjusted as necessary. Such adjustments, if any, are reflected in income in the period in which they are determined. As actual loss information has been reported, the Company has developed its own loss experience and its reserving methods include other actuarial techniques. Over time, such techniques have been given further weight in its reserving process based on the continuing maturation of the Company's reserves. Inherent in the estimates of ultimate losses and loss adjustment expenses are expected trends in claims severity and frequency and other factors which may vary significantly as claims are settled. Accordingly, ultimate losses and loss adjustment expenses may differ materially from the amounts recorded in the accompanying consolidated financial statements. Losses and loss adjustment expenses are recorded on an undiscounted basis, except for excess workers' compensation and employers' liability business written by the Company's insurance operations.

**Mortgage.** The reserves for mortgage guaranty insurance losses and loss adjustment expenses are the estimated claim settlement costs on notices of default that have been received by the Company, as well as loan defaults that have been incurred but have not been reported by the lenders. Consistent with industry accounting practice, the Company does not establish loss reserves for future claims on insured loans that are not currently in default (defined as two consecutive missed payments). The Company establishes loss reserves on a case-by-case basis when insured loans are identified as currently in default using estimated claim rates and average claim sizes for each report year, net of any salvage recoverable. The Company also reserves for defaults that have occurred but have not yet been reported to the Company prior to the close of an accounting period. To determine this reserve, the Company estimates the number of defaults not yet reported using historical information regarding late reported delinquencies and applies estimated claim rates and claim sizes for the estimated defaults not yet reported.

The establishment of reserves across the Company's segments is an inherently uncertain process, are necessarily based on estimates, and the ultimate net cost may vary from such estimates. The methods for making such estimates and for establishing the resulting liability are reviewed and updated using the most current information available. Any resulting adjustments, which may be material, are reflected in current operations.

(j) Contractholder Receivables and Payables

Certain insurance policies written by the Company's insurance operations feature large deductibles, primarily in its construction and national accounts lines of business. Under such contracts, the Company is obligated to pay the claimant for the full amount of the claim. The Company is subsequently reimbursed by the policyholder for the deductible amount. These amounts are included on a gross basis in the consolidated balance sheet in contractholder

payables and contractholder receivables, respectively. In the event that the Company is unable to collect from the policyholder, the Company would record an increase to losses and loss adjustment expenses related to such policy.

(k) Foreign Exchange

Assets and liabilities of foreign operations whose functional currency is not the U.S. Dollar are translated at the prevailing exchange rates at each balance sheet date. Revenues and expenses of such foreign operations are translated at average exchange rates during the year. The net effect of the translation adjustments for foreign operations is included in accumulated other comprehensive income, net of applicable deferred income tax. Monetary assets and liabilities, such as

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premiums receivable and the reserve for losses and loss adjustment expenses, denominated in foreign currencies are revalued at the exchange rate in effect at the balance sheet date with the resulting foreign exchange gains and losses included in net income. Accounts that are classified as non-monetary, such as deferred acquisition costs and the unearned premium reserves, are not revalued. In the case of foreign currency denominated fixed maturity securities which are classified as “available for sale,” the change in exchange rates between the local currency in which the investments are denominated and the Company’s functional currency at each balance sheet date is included in unrealized appreciation or decline in value of securities, a component of accumulated other comprehensive income, net of applicable deferred income tax.

(l) Income Taxes

Deferred income taxes reflect the expected future tax consequences of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and amounts used for income tax purposes. A valuation allowance is recorded if it is more likely than not that some or all of a deferred tax asset may not be realized. The Company considers future taxable income and feasible tax planning strategies in assessing the need for a valuation allowance. In the event the Company determines that it will not be able to realize all or part of its deferred income tax assets in the future, an adjustment to the deferred income tax assets would be charged to income in the period in which such determination is made. In addition, if the Company subsequently assesses that the valuation allowance is no longer needed, a benefit would be recorded to income in the period in which such determination is made. See Note 14 for more information.

The Company recognizes a tax benefit where it concludes that it is more likely than not that the tax benefit will be sustained on audit by the taxing authority based solely on the technical merits of the associated tax position. If the recognition threshold is met, the Company recognizes a tax benefit measured at the largest amount of the tax benefit that, in the Company’s judgment, is greater than 50% likely to be realized. The Company records interest and penalties related to unrecognized tax benefits in the provision for income taxes.

(m) Share-Based Payment Arrangements

The Company applies a fair value based measurement method in accounting for its share-based payment arrangements with eligible employees and directors. Compensation expense is estimated based on the fair value of the award at the grant date and is recognized in net income over the requisite service period with a corresponding increase in shareholders’ equity. No value is attributed to awards that employees forfeit because they fail to satisfy vesting conditions. As such, the number of shares granted is reduced by assumed forfeitures and adjusted based on actual forfeitures until vesting. The Company’s share-based payment arrangements generally vest over a three year period with one-third vesting on the first, second and third anniversaries of the grant date. The share-based compensation expense associated with such awards that have graded vesting features and vest based on service conditions only is calculated on a straight-line basis over the requisite service period for the entire award. For awards granted to retirement-eligible employees where no service is required for the employee to retain the award, the grant date fair value is immediately recognized as compensation expense at the grant date because the employee is able to retain the award without continuing to provide service. For employees near retirement eligibility, attribution of compensation cost is over the period from the grant date to the retirement eligibility date. In November 2012, the Company issued off-cycle share-based awards, which will cliff vest on the fifth anniversary of the grant date. The expense for such grant is being amortized on a straight-line basis over the five-year requisite service period. The off-cycle awards have similar terms as the annual award agreements, however with respect to retirement eligible employees service is required for the employee to retain the award. Retirement-eligible employees retiring prior to the fifth anniversary of the grant date will vest in a pro-rated portion of the award commensurate with the service performed. Such employees will receive the vested portion at the end of the five-year cliff period. These charges had no impact on the Company’s cash flows or total shareholders’ equity. See Note 20 for information relating to the Company’s share-based payment awards.

(n) Guaranty Fund and Other Related Assessments



Liabilities for guaranty fund and other related assessments in the Company's insurance and reinsurance operations are accrued when the Company receives notice that an amount is payable, or earlier if a reasonable estimate of the assessment can be made.

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(o) Treasury Shares

Treasury shares are common shares purchased by the Company and not subsequently canceled. These shares are recorded at cost and result in a reduction of the Company's shareholders' equity in its Consolidated Balance Sheets.

(p) Goodwill and Intangible Assets

Goodwill represents the excess of the purchase price of an acquisition over the fair value of the net assets acquired and is assigned to the applicable reporting unit at acquisition. Goodwill is not amortized and is evaluated for impairment on an annual basis. Impairment tests may be performed more frequently if the facts and circumstances indicate a possible impairment. In performing impairment tests, the Company may first assess qualitative factors to determine whether it is more likely than not (that is, more than a 50% probability) that the fair value of a reporting unit exceeds its carrying amount as a basis for determining whether it is necessary to perform the two-step goodwill impairment test described in the accounting guidance.

Indefinite-lived intangible assets, such as insurance licenses, are not amortized and are evaluated for impairment similar to goodwill. Finite-lived intangible assets and liabilities include the value of acquired insurance and reinsurance contracts, which are estimated based on the present value of future expected cash flows and amortized in 'acquisition expenses' in proportion to the estimated profits expected to be realized. Other finite-lived intangible assets or liabilities, including favorable or unfavorable contracts, are amortized in 'other operating expenses' over their useful lives. Finite-lived intangible assets and liabilities are periodically reviewed for indicators of impairment. An impairment is recognized when the carrying amount is not recoverable from its undiscounted cash flows and is measured as the difference between the carrying amount and fair value.

If goodwill or intangible assets are impaired, such assets are written down to their fair values with the related expense recorded in the Company's results of operations. See Note 18 for information relating to the Company's goodwill and intangible assets.

(q) Recent Accounting Pronouncements

A new accounting standard issued in the 2014 second quarter will change the manner in which most companies recognize revenue. The standard requires that revenue reflect the transfer of goods or services to customers based on the consideration or payment the company expects to be entitled to in exchange for those goods or services; however, the standard does not change the accounting for insurance contracts or financial instruments. The new standard also requires enhanced disclosures about revenue. This accounting guidance is effective in the 2017 first quarter and may be applied on a full retrospective or modified retrospective approach. The Company is currently assessing the impact the implementation of this standard will have on its consolidated financial statements.

A new accounting standard was issued in the 2015 first quarter providing targeted improvements to consolidation guidance for limited partnerships and other similarly structured entities. The new standard addresses instances where a reporting entity consolidates another entity when the reporting entity is simply acting on the behalf of others, amongst other related issues. While the standard is targeted, the application is relevant for all companies that are required to assess whether or not to consolidate certain entities. The standard is effective in the 2016 first quarter and early adoption is permitted. The Company is currently assessing the impact the implementation of this standard will have on its consolidated financial statements.

4. Variable Interest Entity and Noncontrolling Interests

Variable interest entity

A VIE refers to an entity that has characteristics such as (i) insufficient equity at risk to allow the entity to finance its activities without additional financial support or (ii) instances where the equity investors, as a group, do not have characteristics of a controlling financial interest. The primary beneficiary of a VIE is defined as the variable interest holder that is determined to have the controlling financial interest as a result of having both (i) the power to direct the

activities of a VIE that most significantly impact the economic performance of the VIE and (ii) the obligation to absorb losses or right to receive benefits from the VIE that could potentially be significant to the VIE. If a company is determined to be the primary beneficiary, it is required to consolidate the VIE in its financial statements.

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In March 2014, Watford Re raised approximately \$1.1 billion of capital consisting of \$907.3 million in common equity (\$895.6 million net of issuance costs) and \$226.6 million in preference equity (\$219.2 million net of issuance costs and discount). The Company invested \$100.0 million and acquired approximately 11% of Watford Holdings Ltd.'s common equity and a warrant to purchase additional common equity. Arch Underwriters Ltd. ("AUL"), a subsidiary of the Company, acts as Watford Re's reinsurance underwriting manager, and Highbridge Principal Strategies, LLC ("Highbridge"), a subsidiary of JPMorgan Chase & Co., manages Watford Re's investment assets, each under separate long term services agreements. In connection with the capital raise at Watford Re, warrants to purchase a total of 1.7 million common shares were issued to the Company and Highbridge. The warrants are only exercisable if Watford Re has consummated an initial public offering of its common shares or otherwise effected a listing of its common shares on a U.S. national securities exchange and certain targeted returns are achieved for existing common shareholders. The warrants expire on March 25, 2020. John Rathgeber, previously Vice Chairman of Arch Worldwide Reinsurance Group, was named CEO of Watford Re. In addition, Marc Grandisson, Chairman and CEO of Arch Worldwide Reinsurance and Mortgage Groups, and Nicolas Papadopoulos, CEO Reinsurance Group, were appointed to the board of directors of Watford Re.

The Company concluded that Watford Re is a VIE due to both the reinsurance management services agreement with AUL and the investment management agreement with Highbridge. Both of these agreements provide for services for an extended period of time with limited termination rights by Watford Re. In addition, these agreements allow for both AUL and Highbridge to participate in the favorable results of Watford Re in the form of performance fees. To determine if the Company is the primary beneficiary of Watford Re, the Company concluded that the most significant activity of Watford Re pertains to the insurance activities arising from the reinsurance management services agreement, as these activities will ultimately generate the investable assets required by Highbridge to execute the investment strategy. In addition, the Company factored into its analysis qualitative aspects of its relationship with Watford Re that are indicative of power to direct the insurance activities. These aspects coupled with the Company's board seats and a former executive of the Company serving as Watford Re's CEO resulted in the Company concluding that it is the primary beneficiary of Watford Re. As such, the results of Watford Re are included in the Company's consolidated financial statements.

The Company concluded that Watford Re represents a separate operating segment and provides the income statement and total investable assets, total assets and total liabilities of Watford Re within Note 5. At December 31, 2014, Watford Re's liabilities included unearned premiums of \$180.0 million and reserves for losses and loss adjustment expenses of \$66.3 million, some of which is related to transactions with the Company. During 2014, Watford Re generated \$39.3 million of cash provided by operating activities and \$1.16 billion of cash provided by financing activities, partially offset by \$1.18 billion of cash used for investing activities.

Because Watford Re is an independent company, the assets of Watford Re can be used only to settle obligations of Watford Re and Watford Re is solely responsible for its own liabilities and commitments. The Company's financial exposure to Watford Re is limited to its investment in Watford Re's common shares and counterparty credit risk (mitigated by collateral) arising from the reinsurance transactions.

Non-redeemable noncontrolling interests

The Company accounts for the portion of Watford Re's common equity attributable to third party investors in the shareholders' equity section of its consolidated balance sheets. The noncontrolling ownership in Watford Re's common shares was approximately 89% at December 31, 2014. The following table sets forth activity in the non-redeemable

noncontrolling interests:

	Year Ended December 31, 2014
Balance, beginning of year	\$—
Sale of shares to noncontrolling interests	796,904
Amounts attributable to noncontrolling interests	(27,823 )
Balance, end of year	\$769,081

Redeemable noncontrolling interests

The Company accounts for redeemable noncontrolling interests in the mezzanine section of its consolidated balance sheets in accordance with applicable accounting guidance. Such redeemable noncontrolling interests represent the

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9,065,200 cumulative redeemable preference shares (“Watford Preference Shares”) issued in late March 2014 with a par value of \$0.01 per share and a liquidation preference of \$25.00 per share. The Watford Preference Shares were issued at a discounted amount of \$24.50 per share. Holders of the Watford Preference Shares will be entitled to receive, if declared by Watford Re’s board, quarterly cash dividends on the last day of March, June, September, and December. Dividends will accrue from the closing date to June 30, 2019 at a fixed rate of 8.5% per annum. From June 30, 2019 and subsequent, dividends will accrue based on a floating rate equal to the 3 month U.S. dollar LIBOR (with a 1% floor) plus a margin based on the difference between the fixed rate and the 5 year mid swap rate to the floating rate as set out on the Bloomberg Screen IRSB 18. The Watford Preference Shares may be redeemed by Watford Re on or after June 30, 2019 or at the option of the preferred shareholders at any time on or after June 30, 2034. Because the redemption features are not solely within the control of Watford Re, the Company accounts for the redeemable noncontrolling interests in the Watford Preference Shares in the mezzanine section of its consolidated balance sheets. Third party investors own 100% of the Watford Preference Shares at December 31, 2014. Preferred dividends on the Watford Preference Shares, including the accretion of the discount and issuance costs, totaled \$14.7 million for 2014.

The portion of Watford Re’s income or loss attributable to third party investors is recorded in the consolidated statements of income in ‘amounts attributable to noncontrolling interests.’ For 2014, amounts attributable to noncontrolling interests of \$13.1 million reflected the net impact of amounts attributable to non-redeemable noncontrolling interests of \$27.8 million and amounts attributable to redeemable noncontrolling interests of \$14.7 million, as described above.

#### 5. Segment Information

During the 2014 first quarter, to reflect activity during the period as described below, the Company changed its segment structure and added two new segments (mortgage and ‘other’). The Company now classifies its businesses into three underwriting segments — insurance, reinsurance and mortgage — and two other operating segments — ‘other’ and corporate (non-underwriting). The Company determined its reportable segments using the management approach described in accounting guidance regarding disclosures about segments of an enterprise and related information. The accounting policies of the segments are the same as those used for the preparation of the Company’s consolidated financial statements. Intersegment business is allocated to the segment accountable for the underwriting results. The Company’s insurance, reinsurance and mortgage segments each have managers who are responsible for the overall profitability of their respective segments and who are directly accountable to the Company’s chief operating decision makers, the Chairman, President and Chief Executive Officer of ACGL and the Chief Financial Officer of ACGL. The chief operating decision makers do not assess performance, measure return on equity or make resource allocation decisions on a line of business basis. Management measures segment performance for its three underwriting segments based on underwriting income or loss. The Company does not manage its assets by underwriting segment, with the exception of goodwill and intangible assets, and, accordingly, investment income is not allocated to each underwriting segment.

The insurance segment consists of the Company’s insurance underwriting units which offer specialty product lines on a worldwide basis. Product lines include: construction and national accounts; excess and surplus casualty; lenders products; professional lines; programs; property, energy, marine and aviation; travel, accident and health; and other (consisting of alternative markets, excess workers’ compensation and surety business).

The reinsurance segment consists of the Company’s reinsurance underwriting units which offer specialty product lines on a worldwide basis. Product lines include: casualty; marine and aviation; other specialty; property catastrophe; property excluding property catastrophe (losses on a single risk, both excess of loss and pro rata); and other (consisting of life reinsurance, casualty clash and other).

The mortgage segment consists of the Company’s mortgage insurance and reinsurance business and includes the results of Arch MI U.S. Arch MI U.S. was approved as an eligible mortgage insurer by the GSEs (see Note 2) and

provides mortgage insurance to banks and other lenders nationwide, including existing credit union customers. The mortgage segment also provides reinsurance on a global basis, direct mortgage insurance in Europe and various risk-sharing products to government agencies and mortgage lenders.

The 'other' segment includes the results of Watford Re (see Note 4). Watford Re has its own management and board of directors that is responsible for the overall profitability of the 'other' segment. For the 'other' segment, performance is measured based on net income or loss.

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The corporate (non-underwriting) segment results include net investment income, other income (loss), other expenses incurred by the Company, interest expense, net realized gains or losses, net impairment losses included in earnings, equity in net income (loss) of investment funds accounted for using the equity method, net foreign exchange gains or losses, income taxes and items related to the Company's non-cumulative preferred shares. Such amounts exclude the results of the 'other' segment.

The following tables summarize the Company's underwriting income or loss by segment, together with a reconciliation of underwriting income to net income available to Arch common shareholders, summary information regarding net premiums written and earned by major line of business and net premiums written by location:

	Year Ended December 31, 2014					
	Insurance	Reinsurance	Mortgage	Sub-Total	Other	Total
Gross premiums written (1)	\$3,008,669	\$1,527,245	\$227,356	\$4,760,394	\$288,627	\$4,840,616
Premiums ceded	(862,015 )	(261,254 )	(22,519 )	(1,142,912 )	(14,171 )	(948,678 )
Net premiums written	2,146,654	1,265,991	204,837	3,617,482	274,456	3,891,938
Change in unearned premiums	(129,284 )	13,337	(11,264 )	(127,211 )	(170,979 )	(298,190 )
Net premiums earned	2,017,370	1,279,328	193,573	3,490,271	103,477	3,593,748
Other underwriting income	2,135	3,167	4,840	10,142	—	10,142
Losses and loss adjustment expenses	(1,260,953 )	(532,450 )	(55,674 )	(1,849,077 )	(70,173 )	(1,919,250 )
Acquisition expenses, net	(316,308 )	(261,438 )	(49,400 )	(627,146 )	(30,116 )	(657,262 )
Other operating expenses	(335,157 )	(147,964 )	(66,891 )	(550,012 )	(6,268 )	(556,280 )
Underwriting income (loss)	\$107,087	\$340,643	\$26,448	474,178	(3,080 )	471,098
Net investment income				284,336	18,249	302,585
Net realized gains (losses)				133,384	(30,467 )	102,917
Net impairment losses recognized in earnings				(30,150 )	—	(30,150 )
Equity in net income of investment funds accounted for using the equity method				19,883	—	19,883
Other income (loss)				(10,252 )	—	(10,252 )
Other expenses				(47,615 )	(2,329 )	(49,944 )
Interest expense				(45,634 )	—	(45,634 )
Net foreign exchange gains (losses)				82,658	1,086	83,744
Income before income taxes				860,788	(16,541 )	844,247
Income tax expense				(22,987 )	—	(22,987 )
Net income				837,801	(16,541 )	821,260
Dividends attributable to redeemable noncontrolling interests				—	(14,728 )	(14,728 )
Amounts attributable to noncontrolling interests				—	27,823	27,823
Net income available to Arch				837,801	(3,446 )	834,355
Preferred dividends				(21,938 )	—	(21,938 )



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Net income available to Arch common shareholders				\$815,863	\$(3,446)	)	\$812,417
Underwriting Ratios							
Loss ratio	62.5	% 41.6	% 28.8	% 53.0	% 67.8	% 53.4	%
Acquisition expense ratio	15.7	% 20.4	% 25.5	% 18.0	% 29.1	% 18.3	%
Other operating expense ratio	16.6	% 11.6	% 34.6	% 15.8	% 6.1	% 15.5	%
Combined ratio	94.8	% 73.6	% 88.9	% 86.8	% 103.0	% 87.2	%
Goodwill and intangible assets	\$28,331	\$3,333	\$77,875	\$109,539	\$—	\$109,539	
Total investable assets				\$14,609,969	\$1,163,240	\$15,773,209	
Total assets				20,527,027	1,482,516	22,009,543	
Total liabilities				14,492,237	398,660	14,890,897	

Certain amounts included in the gross premiums written of each segment are related to intersegment transactions. (1) Accordingly, the sum of gross premiums written for each segment does not agree to the total gross premiums written as shown in the table above due to the elimination of intersegment transactions in the total.

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	Year Ended December 31, 2013						
	Insurance	Reinsurance	Mortgage	Sub-Total	Other	Total	
Gross premiums written (1)	\$2,712,509	\$1,399,621	\$89,570	\$4,196,623	\$—	\$4,196,623	
Premiums ceded	(763,713 )	(86,620 )	—	(845,256 )	—	(845,256 )	
Net premiums written	1,948,796	1,313,001	89,570	3,351,367	—	3,351,367	
Change in unearned premiums	(72,782 )	(94,329 )	(38,304 )	(205,415 )	—	(205,415 )	
Net premiums earned	1,876,014	1,218,672	51,266	3,145,952	—	3,145,952	
Other underwriting income	2,122	5,258	259	7,639	—	7,639	
Losses and loss adjustment expenses	(1,188,445 )	(486,236 )	(4,743 )	(1,679,424 )	—	(1,679,424 )	
Acquisition expenses, net	(311,904 )	(234,373 )	(17,826 )	(564,103 )	—	(564,103 )	
Other operating expenses	(315,387 )	(134,563 )	(8,377 )	(458,327 )	—	(458,327 )	
Underwriting income (loss)	\$62,400	\$368,758	\$20,579	451,737	—	451,737	
Net investment income				267,219	—	267,219	
Net realized gains				74,018	—	74,018	
Net impairment losses recognized in earnings				(3,786 )	—	(3,786 )	
Equity in net income (loss) of investment funds accounted for using the equity method				35,701	—	35,701	
Other income (loss)				(586 )	—	(586 )	
Other expenses				(42,403 )	—	(42,403 )	
Interest expense				(27,060 )	—	(27,060 )	
Net foreign exchange gains (losses)				(12,335 )	—	(12,335 )	
Income before income taxes				742,505	—	742,505	
Income tax expense				(32,774 )	—	(32,774 )	
Net income				709,731	—	709,731	
Dividends attributable to redeemable noncontrolling interests				—	—	—	
Amounts attributable to noncontrolling interests				—	—	—	
Net income available to Arch Preferred dividends				709,731	—	709,731	
Net income available to Arch common shareholders				(21,938 )	—	(21,938 )	
				\$687,793	\$—	\$687,793	
<b>Underwriting Ratios</b>							
Loss ratio	63.3	% 39.9	% 9.3	% 53.4	% —	53.4	%
Acquisition expense ratio	16.6	% 19.2	% 34.8	% 17.9	% —	17.9	%
Other operating expense ratio	16.8	% 11.0	% 16.3	% 14.6	% —	14.6	%
Combined ratio	96.7	% 70.1	% 60.4	% 85.9	% —	85.9	%
Goodwill and intangible assets	\$20,419	\$6,900	\$—	\$27,319	\$—	\$27,319	

Total investable assets	\$14,049,525	\$—	\$14,049,525
Total assets	19,566,094	—	19,566,094
Total liabilities	13,918,598	—	13,918,598

Certain amounts included in the gross premiums written of each segment are related to intersegment transactions.  
(1) Accordingly, the sum of gross premiums written for each segment does not agree to the total gross premiums written as shown in the table above due to the elimination of intersegment transactions in the total.

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	Year Ended December 31, 2012						
	Insurance	Reinsurance	Mortgage	Sub-Total	Other	Total	
Gross premiums written (1)	\$2,593,959	\$1,213,889	\$68,111	\$3,869,161	\$—	\$3,869,161	
Premiums ceded	(768,625 )	(55,099 )	—	(816,926 )	—	(816,926 )	)
Net premiums written	1,825,334	1,158,790	68,111	3,052,235	—	3,052,235	
Change in unearned premiums	(24,991 )	(40,663 )	(51,441 )	(117,095 )	—	(117,095 )	)
Net premiums earned	1,800,343	1,118,127	16,670	2,935,140	—	2,935,140	
Other underwriting income	2,335	5,755	—	8,090	—	8,090	
Losses and loss adjustment expenses	(1,283,841 )	(574,821 )	(2,615 )	(1,861,277 )	—	(1,861,277 )	)
Acquisition expenses, net	(298,983 )	(204,903 )	(4,998 )	(508,884 )	—	(508,884 )	)
Other operating expenses	(307,489 )	(118,245 )	(4,301 )	(430,035 )	—	(430,035 )	)
Underwriting income (loss)	\$(87,635 )	\$225,913	\$4,756	143,034	—	143,034	
Net investment income				294,895	—	294,895	
Net realized gains				194,228	—	194,228	
Net impairment losses recognized in earnings				(11,388 )	—	(11,388 )	)
Equity in net income (loss) of investment funds accounted for using the equity method				73,510	—	73,510	
Other income (loss)				(12,094 )	—	(12,094 )	)
Other expenses				(35,318 )	—	(35,318 )	)
Interest expense				(28,525 )	—	(28,525 )	)
Net foreign exchange gains (losses)				(28,955 )	—	(28,955 )	)
Income before income taxes				589,387	—	589,387	
Income tax benefit				4,010	—	4,010	
Net income				593,397	—	593,397	
Dividends attributable to redeemable noncontrolling interests				—	—	—	
Amounts attributable to noncontrolling interests				—	—	—	
Net income available to Arch				593,397	—	593,397	
Preferred dividends				(25,079 )	—	(25,079 )	)
Loss on repurchase of preferred shares				(10,612 )	—	(10,612 )	)
Net income available to Arch common shareholders				\$557,706	\$—	\$557,706	
 Underwriting Ratios							
Loss ratio	71.3	% 51.4	% 15.7	% 63.4	% —	% 63.4	%
Acquisition expense ratio	16.6	% 18.3	% 30.0	% 17.3	% —	% 17.3	%
Other operating expense ratio	17.1	% 10.6	% 25.8	% 14.7	% —	% 14.7	%
Combined ratio	105.0	% 80.3	% 71.5	% 95.4	% —	% 95.4	%

Goodwill and intangible assets	\$21,357	\$16,902	\$—	\$38,259	\$—	\$38,259
Total investable assets				\$13,045,134	\$—	\$13,045,134
Total assets				17,816,762	—	17,816,762
Total liabilities				12,647,884	—	12,647,884

Certain amounts included in the gross premiums written of each segment are related to intersegment transactions. (1) Accordingly, the sum of gross premiums written for each segment does not agree to the total gross premiums written as shown in the table above due to the elimination of intersegment transactions in the total.

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The following tables provide summary information regarding net premiums written and earned by major line of business and net premiums written by location:

INSURANCE SEGMENT	Year Ended December 31,		
	2014	2013	2012
Net premiums written (1)			
Programs	\$480,580	\$419,673	\$340,130
Professional lines (2)	476,604	476,193	548,423
Construction and national accounts	286,994	271,110	211,130
Property, energy, marine and aviation	244,640	280,551	294,690
Excess and surplus casualty (3)	212,519	149,286	112,307
Travel, accident and health	145,732	104,903	106,871
Lenders products	100,407	101,576	99,724
Other (4)	199,178	145,504	112,059
Total	\$2,146,654	\$1,948,796	\$1,825,334
Net premiums earned (1)			
Programs	\$460,392	\$386,840	\$318,740
Professional lines (2)	456,508	491,791	536,971
Construction and national accounts	277,811	250,729	209,217
Property, energy, marine and aviation	244,974	304,294	313,081
Excess and surplus casualty (3)	182,024	118,395	113,597
Travel, accident and health	127,691	97,135	98,686
Lenders products	94,438	99,847	103,478
Other (4)	173,532	126,983	106,573
Total	\$2,017,370	\$1,876,014	\$1,800,343
Net premiums written by client location (1)			
United States	\$1,726,181	\$1,526,156	\$1,314,577
Europe	240,136	226,254	271,278
Asia and Pacific	79,564	95,970	120,492
Other	100,773	100,416	118,987
Total	\$2,146,654	\$1,948,796	\$1,825,334
Net premiums written by underwriting location (1)			
United States	\$1,688,887	\$1,478,930	\$1,254,623
Europe	394,430	389,763	472,132
Other	63,337	80,103	98,579
Total	\$2,146,654	\$1,948,796	\$1,825,334

(1) Insurance segment results include premiums written and earned assumed through intersegment transactions and exclude premiums written and earned ceded through intersegment transactions.

(2) Includes professional liability, executive assurance and healthcare business.

(3) Includes casualty and contract binding business.

(4) Includes alternative markets, excess workers' compensation and surety business.



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REINSURANCE SEGMENT	Year Ended December 31,		
	2014	2013	2012
Net premiums written (1)			
Other specialty (2)	\$405,126	\$417,865	\$308,104
Property excluding property catastrophe (3)	343,043	292,536	265,783
Casualty (4)	317,996	306,304	205,925
Property catastrophe	137,471	220,749	283,677
Marine and aviation	50,444	64,380	84,649
Other (5)	11,911	11,167	10,652
Total	\$1,265,991	\$1,313,001	\$1,158,790
Net premiums earned (1)			
Other specialty (2)	\$424,725	\$387,630	\$309,101
Property excluding property catastrophe (3)	303,496	274,719	254,338
Casualty (4)	327,518	241,774	188,963
Property catastrophe	150,761	232,423	280,185
Marine and aviation	61,118	70,105	76,145
Other (5)	11,710	12,021	9,395
Total	\$1,279,328	\$1,218,672	\$1,118,127
Net premiums written (1)			
Pro rata	\$663,135	\$692,024	\$530,763
Excess of loss	602,856	620,977	628,027
Total	\$1,265,991	\$1,313,001	\$1,158,790
Net premiums earned (1)			
Pro rata	\$686,201	\$608,586	\$499,094
Excess of loss	593,127	610,086	619,033
Total	\$1,279,328	\$1,218,672	\$1,118,127
Net premiums written by client location (1)			
United States	\$589,255	\$706,388	\$568,043
Europe	355,735	327,059	341,653
Asia and Pacific	142,626	94,252	97,879
Bermuda	77,620	87,047	72,864
Other	100,755	98,255	78,351
Total	\$1,265,991	\$1,313,001	\$1,158,790
Net premiums written by underwriting location (1)			
United States	\$492,891	\$507,183	\$379,239
Bermuda	394,351	459,467	527,909
Europe	343,823	309,129	225,470
Other	34,926	37,222	26,172
Total	\$1,265,991	\$1,313,001	\$1,158,790

(1) Reinsurance segment results include premiums written and earned assumed through intersegment transactions and exclude premiums written and earned ceded through intersegment transactions.



- (2) Includes non-excess motor, surety, accident and health, workers' compensation catastrophe, agriculture, trade credit and other.
- (3) Includes facultative business.
- (4) Includes executive assurance, professional liability, workers' compensation, excess motor, healthcare and other.
- (5) Includes life, casualty clash and other.

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	Year Ended December 31,		
	2014	2013	2012
<b>MORTGAGE SEGMENT</b>			
Net premiums written by client location			
United States	\$184,333	\$63,692	\$61,571
Other	20,504	25,878	6,540
Total	\$204,837	\$89,570	\$68,111
Net premiums written by underwriting location			
United States	\$98,809	\$—	\$—
Other	106,028	89,570	68,111
Total	\$204,837	\$89,570	\$68,111
<b>OTHER SEGMENT</b>			
	Year Ended December 31,		
	2014	2013	2012
Net premiums written (1)			
Casualty (2)	\$179,054	\$—	\$—
Other specialty (3)	66,524	—	—
Property catastrophe	9,280	—	—
Marine and aviation	1,251	—	—
Property excluding property catastrophe	564	—	—
Other (4)	17,783	—	—
Total	\$274,456	\$—	\$—
Net premiums earned (1)			
Casualty (2)	\$72,395	\$—	\$—
Other specialty (3)	24,157	—	—
Property catastrophe	5,115	—	—
Marine and aviation	789	—	—
Property excluding property catastrophe	182	—	—
Other (4)	839	—	—
Total	\$103,477	\$—	\$—
Net premiums written by client location (1)			
United States	\$186,795	\$—	\$—
Europe	54,131	—	—
Bermuda	27,977	—	—
Other	5,553	—	—
Total	\$274,456	\$—	\$—

(1) Other segment results include premiums written and earned assumed through intersegment transactions and exclude premiums written and earned ceded through intersegment transactions.

(2) Includes professional liability, excess motor, programs and other.

(3) Includes non-excess motor and other.

(4) Includes mortgage and other.



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## 6. Reserve for Losses and Loss Adjustment Expenses

The following table represents an analysis of losses and loss adjustment expenses and a reconciliation of the beginning and ending reserve for losses and loss adjustment expenses:

	Year Ended December 31,		
	2014	2013	2012
Reserve for losses and loss adjustment expenses at beginning of year	\$8,824,696	\$8,933,292	\$8,456,210
Unpaid losses and loss adjustment expenses recoverable	1,748,250	1,829,070	1,818,047
Net reserve for losses and loss adjustment expenses at beginning of year	7,076,446	7,104,222	6,638,163
Net incurred losses and loss adjustment expenses relating to losses occurring in:			
Current year	2,246,152	1,943,466	2,082,805
Prior years	(326,902)	(264,042)	(221,528)
Total net incurred losses and loss adjustment expenses	1,919,250	1,679,424	1,861,277
Net losses and loss adjustment expense reserves of acquired business (1)	120,671	—	31,977
Foreign exchange (gains) losses	(160,486)	1,617	38,184
Net paid losses and loss adjustment expenses relating to losses occurring in:			
Current year	(347,270)	(288,114)	(295,984)
Prior years	(1,350,466)	(1,420,703)	(1,169,395)
Total net paid losses and loss adjustment expenses	(1,697,736)	(1,708,817)	(1,465,379)
Net reserve for losses and loss adjustment expenses at end of year	7,258,145	7,076,446	7,104,222
Unpaid losses and loss adjustment expenses recoverable	1,778,303	1,748,250	1,829,070
Reserve for losses and loss adjustment expenses at end of year	\$9,036,448	\$8,824,696	\$8,933,292

(1) 2014 amount relates to the Company's acquisition of Arch MI U.S. while the 2012 amount relates to the Company's acquisition of the trade credit and surety operations of Ariel Reinsurance Company.

## 2014 Prior Year Reserve Development

During 2014, the Company recorded estimated net favorable development on prior year loss reserves of \$326.9 million, which consisted of \$267.3 million from the reinsurance segment, \$58.7 million from the insurance segment and \$0.9 million from the mortgage segment.

The reinsurance segment's net favorable development of \$267.3 million, or 20.9 points of net earned premium, consisted of \$146.7 million from short-tailed lines and \$120.6 million of net favorable development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines included \$107.6 million from property catastrophe and property other than property catastrophe reserves, primarily from the 2011 to 2013 underwriting years (i.e., losses attributable to contracts having an inception or renewal date within the given twelve-month period). Contained within this release was favorable development of \$23.3 million from the 2005 to 2013 named catastrophic events. The net reduction of loss estimates for the reinsurance segment's short-tailed lines primarily resulted from varying levels of reported and paid claims activity than previously anticipated which led to decreases in certain loss ratio selections during 2014. Net favorable development of \$120.6 million in medium-tailed and long-tailed lines included reductions in casualty reserves of \$101.6 million, primarily from the 2003 to 2006 underwriting years and the 2009 and 2010 underwriting years, and marine and aviation reserves of \$14.7 million,

primarily from the 2008 to 2012 underwriting years. The balance of net favorable development was spread across various lines and underwriting years.

The insurance segment's net favorable development of \$58.7 million, or 2.9 points of net earned premium, consisted of \$73.5 million of net favorable development from short-tailed lines, partially offset by \$14.8 million of net adverse development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines predominantly consisted of \$60.5 million of net favorable development in property lines, primarily from the 2008 to 2013 accident years (i.e., the year in which a loss occurred), with the balance emanating from lenders products, primarily from the 2012 accident year, and travel and accident, primarily from the 2012 and 2013 accident years. Contained within this short tail

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release was favorable development of \$7.9 million from 2005 to 2013 named catastrophic events. Net adverse development in medium-tailed and long-tailed lines of \$14.8 million included a net increase of \$41.3 million in construction reserves, primarily from the 2009 to 2013 accident years. The adverse development in construction was largely driven by general liability claims involving New York labor law matters. In addition, the insurance segment experienced \$26.2 million of net adverse development in program business, primarily from the 2011 and 2012 accident years. Such amounts were partially offset by \$39.0 million of net favorable development on professional lines, primarily from the 2003 to 2011 accident years, and \$7.8 million of net favorable development on surety business, primarily from the 2011 to 2013 accident years.

2013 Prior Year Reserve Development

During 2013, the Company recorded estimated net favorable development on prior year loss reserves of \$264.0 million, which consisted of \$217.9 million from the reinsurance segment, \$45.1 million from the insurance segment and \$1.0 million from the mortgage segment.

The reinsurance segment's net favorable development of \$217.9 million, or 17.9 points of net earned premium, consisted of \$111.1 million from short-tailed lines and \$106.8 million of net favorable development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines included \$110.1 million from property catastrophe and property other than property catastrophe reserves, primarily from the 2009 to 2012 underwriting years. Contained within this release was favorable development of \$28.6 million from the 2005 to 2012 named catastrophic events. The net reduction of loss estimates for the reinsurance segment's short-tailed lines primarily resulted from varying levels of reported and paid claims activity than previously anticipated which led to decreases in certain loss ratio selections during 2013. Net favorable development of \$106.8 million in medium-tailed and long-tailed lines included reductions in casualty reserves of \$98.8 million, primarily from the 2003 to 2009 underwriting years, and marine and aviation reserves of \$8.1 million, primarily from the 2007 and 2009 underwriting years. The balance of net favorable development was spread across various lines and underwriting years.

The insurance segment's net favorable development of \$45.1 million, or 2.4 points of net earned premium, consisted of \$67.0 million of net favorable development from short-tailed lines, partially offset by \$21.9 million of net adverse development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines predominantly consisted of \$62.4 million of net favorable development in property lines from the 2008 to 2011 accident years, with the balance emanating from lenders products, primarily from the 2011 and 2012 accident years, and travel and accident, primarily from the 2009 and 2010 accident years. Contained within this short tail release was favorable development of \$15.9 million from 2005 to 2012 named catastrophic events. Net adverse development in medium-tailed and long-tailed lines of \$21.9 million included a net increase of \$28.0 million in specialty casualty reserves. Such development primarily stemmed from losses in two captive programs written by the insurance segment's Canadian operation, which was partially offset by favorable development in non-captive business, and from three large excess casualty claims in the insurance segment's U.S. operation, all of the above in the more recent accident years. In addition, the insurance segment experienced \$26.2 million of net adverse development in program business, with nearly 90% of this development emanating from a single canceled program whose last inception year was 2011. Such amounts were partially offset by net favorable development spread across various lines and accident years.

2012 Prior Year Reserve Development

During 2012, the Company recorded estimated net favorable development on prior year loss reserves of \$221.5 million, which consisted of \$190.3 million from the reinsurance segment and \$31.2 million from the insurance segment.

The reinsurance segment's net favorable development of \$190.3 million, or 17.0 points of net earned premium, consisted of \$117.6 million from short-tailed lines and \$72.7 million of net favorable development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines included \$92.1 million from property catastrophe and property other than property catastrophe reserves, primarily from the 2008 to 2011 underwriting

years. Contained within this release was favorable development of \$16.8 million from the 2005 to 2011 named catastrophic events. The net reduction of loss estimates for the reinsurance segment's short-tailed lines primarily resulted from varying levels of reported and paid claims activity than previously anticipated which led to decreases in certain loss ratio selections during 2012. Net favorable development of \$72.7 million in medium-tailed and long-tailed lines included reductions in casualty reserves of \$55.9 million, primarily from the 2003 to 2009 underwriting years, and marine and aviation reserves of \$16.8 million, primarily from the 2008 to 2010 underwriting years. The balance of net favorable development was spread across various lines and underwriting years.

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The insurance segment's net favorable development of \$31.2 million, or 1.7 points of net earned premium, consisted of \$79.3 million of net favorable development from short-tailed lines, partially offset by \$48.1 million of net adverse development from medium-tailed and long-tailed lines. Favorable development in short-tailed lines predominantly consisted of \$69.0 million of net favorable development in property lines from the 2007 to 2011 accident years, with the balance emanating from travel and accident and lender's products, both primarily from the 2009 to 2011 accident years. Contained within this short tail release was favorable development of \$19.1 million from 2005 to 2011 named catastrophic events. Net adverse development in medium-tailed and long-tailed lines of \$48.1 million included a net increase of \$38.9 million from the insurance segment's U.K. underwriting operations for the 2007 to 2010 accident years, primarily due to an increase in Australian executive assurance reserves. In addition, U.S. primary specialty casualty reserves reflected a net increase of \$23.0 million, primarily from the 2003 to 2005 accident years, and \$19.8 million from U.S. professional liability in the two most recent accident years. Such amounts were partially offset by net favorable development spread across various lines and accident years.

**7. Reinsurance**

In the normal course of business, the Company's insurance subsidiaries cede a portion of their premium through pro rata and excess of loss reinsurance agreements on a treaty or facultative basis. The Company's reinsurance subsidiaries participate in "common account" retrocessional arrangements for certain pro rata treaties. Such arrangements reduce the effect of individual or aggregate losses to all companies participating on such treaties, including the reinsurers, such as the Company's reinsurance subsidiaries, and the ceding company. In addition, the Company's reinsurance subsidiaries may purchase retrocessional coverage as part of their risk management program. Reinsurance recoverables are recorded as assets, predicated on the reinsurers' ability to meet their obligations under the reinsurance agreements. If the reinsurers are unable to satisfy their obligations under the agreements, the Company's insurance or reinsurance subsidiaries would be liable for such defaulted amounts.

The effects of reinsurance on the Company's written and earned premiums and losses and loss adjustment expenses with unaffiliated reinsurers were as follows:

	Year Ended December 31,		
	2014	2013	2012
<b>Premiums Written</b>			
Direct	\$3,100,946	\$2,754,582	\$2,673,864
Assumed	1,739,670	1,442,041	1,195,297
Ceded	(948,678 )	(845,256 )	(816,926 )
Net	\$3,891,938	\$3,351,367	\$3,052,235
<b>Premiums Earned</b>			
Direct	\$2,914,755	\$2,666,104	\$2,572,078
Assumed	1,574,049	1,296,048	1,165,371
Ceded	(895,056 )	(816,200 )	(802,309 )
Net	\$3,593,748	\$3,145,952	\$2,935,140
<b>Losses and Loss Adjustment Expenses</b>			
Direct	\$1,763,492	\$1,603,369	\$1,725,707
Assumed	621,346	450,618	578,081
Ceded	(465,588 )	(374,563 )	(442,511 )
Net	\$1,919,250	\$1,679,424	\$1,861,277

The Company monitors the financial condition of its reinsurers and attempts to place coverages only with substantial, financially sound carriers. At December 31, 2014, approximately 83.0% of the Company's reinsurance recoverables on paid and unpaid losses (not including prepaid reinsurance premiums) of \$1.81 billion were due from carriers which



had an A.M. Best rating of “A-” or better and the largest reinsurance recoverables from any one carrier was approximately 3.7% of the Company’s total shareholders’ equity. At December 31, 2013, approximately 86.5% of the Company’s reinsurance recoverables on paid and unpaid losses (not including prepaid reinsurance premiums) of \$1.80 billion were due from carriers which had an A.M. Best rating of “A-” or better and the largest reinsurance recoverables from any one carrier was approximately 4.2% of the Company’s total shareholders’ equity. Although the Company has not experienced any material credit losses to date, an inability of its reinsurers or retrocessionaires to meet their obligations to it over the relevant exposure periods for any reason could have a material adverse effect on its financial condition and results of operations.

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## 8. Investment Information

At December 31, 2014, total investable assets of \$15.77 billion included \$14.61 billion managed by the Company and \$1.16 billion attributable to Watford Re.

## Available For Sale Securities

The following table summarizes the fair value and cost or amortized cost of the Company's securities classified as available for sale:

	Estimated Fair Value	Gross Unrealized Gains	Gross Unrealized Losses	Cost or Amortized Cost	OTTI Unrealized Losses (2)
December 31, 2014					
Fixed maturities and fixed maturities pledged under securities lending agreements (1):					
Corporate bonds	\$3,108,513	\$37,928	\$(38,974)	\$3,109,559	\$(317)
Mortgage backed securities	943,343	18,843	(3,842)	928,342	(3,307)
Municipal bonds	1,494,122	31,227	(1,044)	1,463,939	—
Commercial mortgage backed securities	1,114,528	14,594	(3,822)	1,103,756	—
U.S. government and government agencies	1,447,972	8,345	(1,760)	1,441,387	—
Non-U.S. government securities	1,015,153	21,311	(37,203)	1,031,045	—
Asset backed securities	1,677,941	8,425	(6,089)	1,675,605	(22)
Total	10,801,572	140,673	(92,734)	10,753,633	(3,646)
Equity securities	658,182	109,012	(13,364)	562,534	—
Other investments	296,224	31,839	(362)	264,747	—
Short-term investments	797,226	738	(5,270)	801,758	—
Total	\$12,553,204	\$282,262	\$(111,730)	\$12,382,672	\$(3,646)
December 31, 2013					
Fixed maturities and fixed maturities pledged under securities lending agreements (1):					
Corporate bonds	\$2,267,263	\$35,289	\$(35,537)	\$2,267,511	\$(16)
Mortgage backed securities	1,133,095	16,270	(22,209)	1,139,034	(9,269)
Municipal bonds	1,481,738	29,378	(9,730)	1,462,090	(17)
Commercial mortgage backed securities	1,074,497	13,972	(15,224)	1,075,749	(199)
U.S. government and government agencies	1,301,809	3,779	(11,242)	1,309,272	(19)
Non-U.S. government securities	1,085,861	14,729	(19,363)	1,090,495	—
Asset backed securities	1,332,594	20,033	(13,795)	1,326,356	(3,422)
Total	9,676,857	133,450	(127,100)	9,670,507	(12,942)
Equity securities	496,824	69,487	(5,938)	433,275	—
Other investments	498,310	28,082	(18,459)	488,687	—
Short-term investments	1,478,367	1,654	(871)	1,477,584	—
Total	\$12,150,358	\$232,673	\$(152,368)	\$12,070,053	\$(12,942)

In securities lending transactions, the Company receives collateral in excess of the fair value of the fixed maturities and short-term investments pledged. For purposes of this table, the Company has excluded the collateral received (1) and reinvested and included the fixed maturities and short-term investments pledged. See “—Securities Lending Agreements.”

(2) Represents the total other-than-temporary impairments (“OTTI”) recognized in accumulated other comprehensive income (“AOCI”). It does not include the change in fair value subsequent to the impairment measurement date. At

December 31, 2014, the net unrealized gain related to securities for which a non-credit OTTI was recognized in AOCI was \$0.9 million, compared to a net unrealized gain of \$6.0 million at December 31, 2013.

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The following table summarizes, for all available for sale securities in an unrealized loss position, the fair value and gross unrealized loss by length of time the security has been in a continual unrealized loss position:

	Less than 12 Months		12 Months or More		Total	
	Estimated Fair Value	Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses
December 31, 2014						
Fixed maturities and fixed maturities pledged under securities lending agreements (1):						
Corporate bonds	\$1,309,637	\$(32,903)	\$148,963	\$(6,071)	\$1,458,600	\$(38,974)
Mortgage backed securities	293,624	(1,476)	59,107	(2,366)	352,731	(3,842)
Municipal bonds	210,614	(588)	13,643	(456)	224,257	(1,044)
Commercial mortgage backed securities	232,147	(770)	125,894	(3,052)	358,041	(3,822)
U.S. government and government agencies	618,381	(1,626)	3,438	(134)	621,819	(1,760)
Non-U.S. government securities	510,766	(31,172)	46,910	(6,031)	557,676	(37,203)
Asset backed securities	612,950	(2,486)	243,452	(3,603)	856,402	(6,089)
Total	3,788,119	(71,021)	641,407	(21,713)	4,429,526	(92,734)
Equity securities	181,002	(13,364)	—	—	181,002	(13,364)
Other investments	59,638	(362)	—	—	59,638	(362)
Short-term investments	79,271	(5,270)	—	—	79,271	(5,270)
Total	\$4,108,030	\$(90,017)	\$641,407	\$(21,713)	\$4,749,437	\$(111,730)

December 31, 2013

Fixed maturities and fixed maturities pledged under securities lending agreements (1):

Corporate bonds	\$1,183,625	\$(32,837)	\$46,673	\$(2,700)	\$1,230,298	\$(35,537)
Mortgage backed securities	778,693	(20,253)	43,634	(1,956)	822,327	(22,209)
Municipal bonds	589,009	(9,422)	6,092	(308)	595,101	(9,730)
Commercial mortgage backed securities	677,617	(15,110)	1,612	(114)	679,229	(15,224)
U.S. government and government agencies	1,144,809	(11,242)	—	—	1,144,809	(11,242)
Non-U.S. government securities	821,506	(15,776)	24,334	(3,587)	845,840	(19,363)
Asset backed securities	692,362	(10,431)	88,629	(3,364)	780,991	(13,795)
Total	5,887,621	(115,071)	210,974	(12,029)	6,098,595	(127,100)
Equity securities	76,563	(5,938)	—	—	76,563	(5,938)
Other investments	165,891	(15,775)	47,316	(2,684)	213,207	(18,459)
Short-term investments	28,170	(871)	—	—	28,170	(871)
Total	\$6,158,245	\$(137,655)	\$258,290	\$(14,713)	\$6,416,535	\$(152,368)

(1) In securities lending transactions, the Company receives collateral in excess of the fair value of the fixed maturities and short-term investments pledged. For purposes of this table, the Company has excluded the collateral received and reinvested and included the fixed maturities and short-term investments pledged. See “—Securities Lending

Agreements.”

At December 31, 2014, on a lot level basis, approximately 1,900 security lots out of a total of approximately 4,790 security lots were in an unrealized loss position and the largest single unrealized loss from a single lot in the Company’s fixed maturity portfolio was \$2.9 million. At December 31, 2013, on a lot level basis, approximately 2,080 security lots out of a total of approximately 4,400 security lots were in an unrealized loss position and the largest single unrealized loss from a single lot in the Company’s fixed maturity portfolio was \$3.5 million.

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The contractual maturities of the Company's fixed maturities and fixed maturities pledged under securities lending agreements are shown in the following table. Expected maturities, which are management's best estimates, will differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties.

Maturity	December 31, 2014		December 31, 2013	
	Estimated Fair Value	Amortized Cost	Estimated Fair Value	Amortized Cost
Due in one year or less	\$235,930	\$233,794	\$235,330	\$232,652
Due after one year through five years	4,074,562	4,077,408	3,738,500	3,718,920
Due after five years through 10 years	2,475,726	2,461,356	1,966,536	1,979,510
Due after 10 years	279,542	273,372	196,305	198,286
	7,065,760	7,045,930	6,136,671	6,129,368
Mortgage backed securities	943,343	928,342	1,133,095	1,139,034
Commercial mortgage backed securities	1,114,528	1,103,756	1,074,497	1,075,749
Asset backed securities	1,677,941	1,675,605	1,332,594	1,326,356
Total	\$10,801,572	\$10,753,633	\$9,676,857	\$9,670,507

## Securities Lending Agreements

At December 31, 2014, the fair value and amortized cost of fixed maturities and short-term investments pledged under securities lending agreements were \$50.8 million and \$52.1 million, respectively, compared to \$105.1 million and \$105.9 million at December 31, 2013, respectively. At December 31, 2014, the portfolio of collateral backing the Company's securities lending program included approximately \$5.8 million of sub-prime securities, compared to \$6.3 million at December 31, 2013.

## Other Investments

The following table summarizes the Company's other investments, including available for sale and fair value option components:

	December 31,	
	2014	2013
Available for sale securities:		
Asian and emerging markets	\$236,586	\$331,984
Investment grade fixed income	59,638	159,115
Other	—	7,211
Total available for sale	296,224	498,310
Fair value option:		
Term loan investments (par value: \$1,076,011 and \$360,204)	1,073,649	399,591
Mezzanine debt funds	121,341	102,172
Credit related funds	114,436	63,271
Investment grade fixed income	69,108	75,062
Asian and emerging markets	25,800	14,054
Other (1)	147,573	119,130
Total fair value option	1,551,907	773,280
Total	\$1,848,131	\$1,271,590

(1) Includes fund investments with strategies in mortgage servicing rights, transportation and infrastructure assets and other.

Certain of the Company's other investments are in investment funds for which the Company has the option to redeem at agreed upon values as described in each investment fund's subscription agreement. Depending on the terms of the various subscription agreements, investments in investment funds may be redeemed daily, monthly, quarterly or on

other terms. Two common redemption restrictions which may impact the Company's ability to redeem these investment funds are gates and lockups. A gate is a suspension of redemptions which may be implemented by the general partner or investment manager of the fund in order to defer, in whole or in part, the redemption request in the event the aggregate amount of redemption requests exceeds a predetermined percentage of the investment fund's net assets which may otherwise hinder the general partner or investment manager's ability to liquidate holdings in an orderly fashion in order to generate the cash necessary to fund extraordinarily large redemption payouts. A lockup period is the initial amount of time an investor is

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contractually required to hold the security before having the ability to redeem. If the investment funds are eligible to be redeemed, the time to redeem such fund can take weeks or months following the notification.

Fair Value Option

The following table summarizes the Company's assets and liabilities which are accounted for using the fair value option:

	December 31,	
	2014	2013
Fixed maturities	\$632,024	\$448,254
Other investments	1,551,907	773,280
Short term investments	251,601	—
Investments accounted for using the fair value option	\$2,435,532	\$1,221,534
Net Investment Income		

The components of net investment income were derived from the following sources:

	Year Ended December 31,		
	2014	2013	2012
Fixed maturities	\$265,219	\$249,833	\$281,140
Term loan investments	39,940	20,608	15,283
Equity securities (dividends)	13,005	8,919	7,963
Short-term investments	1,888	1,259	1,980
Other (1)	28,869	19,710	14,196
Gross investment income	348,921	300,329	320,562
Investment expenses	(46,336)	) (33,110)	) (25,667)
Net investment income	\$302,585	\$267,219	\$294,895

(1) Includes dividends on investment funds and other items.

Net Realized Gains (Losses)

Net realized gains (losses) were as follows, excluding the other-than-temporary impairment provisions:

	Year Ended December 31,		
	2014	2013	2012
Available for sale securities:			
Gross gains on investment sales	\$248,031	\$239,421	\$247,291
Gross losses on investment sales	(145,808)	) (203,077)	) (71,722)
Change in fair value of assets and liabilities accounted for using the fair value option:			
Fixed maturities	(20,743)	) 54	13,195
Other investments	2,672	17,503	7,383
Equity securities	—	704	(73)
Short term investments	(395)	) —	—
Derivative instruments (1)	43,934	20,912	(1,326)
Other (2)	(24,774)	) (1,499)	) (520)
Net realized gains	\$102,917	\$74,018	\$194,228

(1) See Note 11 for information on the Company's derivative instruments.

(2) Includes accretion of contingent consideration liability amounts related to the acquisition of the CMG Entities (see Note 2 for further details).





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## Other-Than-Temporary Impairments

The Company performs quarterly reviews of its available for sale investments in order to determine whether declines in fair value below the amortized cost basis were considered other-than-temporary in accordance with applicable guidance. The following table details the net impairment losses recognized in earnings by asset class:

	Year Ended December 31,		
	2014	2013	2012
Fixed maturities:			
Corporate bonds	\$(2,062	) \$(88	) \$(1,512
Mortgage backed securities	(1,525	) (295	) (2,491
Asset backed securities	(40	) (128	) (127
Non-U.S. government securities	—	—	(261
Commercial mortgage backed securities	(7	) —	(211
U.S. government and government agencies	—	—	(10
Total	(3,634	) (511	) (4,612
Other investments	(25,410	) —	—
Equity securities	(1,106	) (3,275	) (6,689
Investment of funds received under securities lending agreements	—	—	(87
Net impairment losses recognized in earnings	\$(30,150	) \$(3,786	) \$(11,388

A description of the methodology and significant inputs used to measure the amount of net impairment losses recognized in earnings in 2014 is as follows:

Other investments — the Company utilized information received from fund managers and positive and negative evidence, including the business prospects, recent events, industry and market data and other factors. Net impairment losses for 2014 primarily related to a reduction in the carrying value of a fund investment which was in an unrealized loss position and where the Company determined that it did not intend to hold such investment for a reasonable period of time by which the fair value of the fund would increase and the Company would recover its cost. The Company redeemed its holding in such fund in early October 2014;

Corporate bonds – the Company reviewed the business prospects, credit ratings, estimated loss given default factors, foreign currency impacts and information received from asset managers and rating agencies for certain corporate bonds. The amortized cost basis of the corporate bonds were adjusted down, if required, to the expected recovery value calculated in the OTTI review process;

Mortgage backed securities – the Company utilized underlying data provided by asset managers, cash flow projections and additional information from credit agencies in order to determine an expected recovery value for each security. The analysis includes expected cash flow projections under base case and stress case scenarios which modify the expected default expectations and loss severities and slow down prepayment assumptions. The significant inputs in the models include the expected default rates, delinquency rates and foreclosure costs. Net impairment losses for 2014 primarily resulted from a revised analysis of prepayment assumptions on one interest only mortgage backed security and small adjustments in other holdings. The amortized cost basis of the mortgage backed securities were adjusted down, if required, to the expected recovery value calculated in the OTTI review process;

Equity securities – the Company utilized information received from asset managers on common stocks, including the business prospects, recent events, industry and market data and other factors. For certain equities which were in an unrealized loss position and where the Company determined that it did not have the intent or ability to hold such securities for a reasonable period of time by which the fair value of the securities would increase and the Company would recover its cost, the cost basis of such securities was adjusted down accordingly.

The Company believes that the \$3.6 million of OTTI included in accumulated other comprehensive income at December 31, 2014 on the securities which were considered by the Company to be impaired was due to market and sector-related factors (i.e., not credit losses). At December 31, 2014, the Company did not intend to sell these

securities, or any other securities which were in an unrealized loss position, and determined that it is more likely than not that the Company will not be required to sell such securities before recovery of their cost basis.

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The following table provides a roll forward of the amount related to credit losses recognized in earnings for which a portion of an OTTI was recognized in accumulated other comprehensive income:

	Year Ended December 31,		
	2014	2013	2012
Balance at start of year	\$60,062	\$62,001	\$66,545
Credit loss impairments recognized on securities not previously impaired	691	423	1,962
Credit loss impairments recognized on securities previously impaired	162	88	2,735
Reductions for increases in cash flows expected to be collected that are recognized over the remaining life of the security	—	—	—
Reductions for securities sold during the period	(40,719 )	(2,450 )	(9,241 )
Balance at end of year	\$20,196	\$60,062	\$62,001

**Restricted Assets**

The Company is required to maintain assets on deposit, which primarily consist of fixed maturities, with various regulatory authorities to support its insurance and reinsurance operations. The Company's insurance and reinsurance subsidiaries maintain assets in trust accounts as collateral for insurance and reinsurance transactions with affiliated companies and also have investments in segregated portfolios primarily to provide collateral or guarantees for letters of credit to third parties. See Note 16, "Commitments and Contingencies—Letter of Credit and Revolving Credit Facilities," for further details. The following table details the value of the Company's restricted assets:

	December 31,	
	2014	2013
Assets used for collateral or guarantees:		
Affiliated transactions	\$4,138,527	\$4,060,533
Third party agreements	970,120	856,890
Deposits with U.S. regulatory authorities	337,981	302,809
Trust funds	72,461	75,264
Deposits with non-U.S. regulatory authorities	—	6,546
Total restricted assets	\$5,519,089	\$5,302,042

In addition, because Watford Re is an independent company, the assets of Watford Re can be used only to settle obligations of Watford Re and Watford Re is solely responsible for its own liabilities and commitments. See Note 5, "Segment Information," for information on Watford Re's assets and liabilities.

**Investment Funds Accounted For Using the Equity Method**

The Company recorded equity in net income related to investment funds accounted for using the equity method of \$19.9 million for 2014, compared to \$35.7 million for 2013 and \$73.5 million for 2012. Due to the ownership structure of these investment funds (e.g., limited partnership), the Company uses the equity method where it does not have a controlling interest and is not the primary beneficiary. In applying the equity method, these investments are initially recorded at cost and are subsequently adjusted based on the Company's proportionate share of the net income or loss of the funds (which include changes in the fair value of the underlying securities in the funds). Such investments are generally recorded on a one month lag with some investments reported on a three month lag based on the availability of reports from the investment funds. Changes in the carrying value of such investments are recorded in net income as "Equity in net income (loss) of investment funds accounted for using the equity method." As such, fluctuations in the carrying value of the investment funds accounted for using the equity method may increase the volatility of the Company's reported results of operations. Investment funds accounted for using the equity method totaled \$349.0 million at December 31, 2014, compared to \$244.3 million at December 31, 2013.



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## 9. Fair Value

Accounting guidance regarding fair value measurements addresses how companies should measure fair value when they are required to use a fair value measure for recognition or disclosure purposes under GAAP and provides a common definition of fair value to be used throughout GAAP. It defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly fashion between market participants at the measurement date. In addition, it establishes a three-level valuation hierarchy for the disclosure of fair value measurements. The valuation hierarchy is based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date. The level in the hierarchy within which a given fair value measurement falls is determined based on the lowest level input that is significant to the measurement (Level 1 being the highest priority and Level 3 being the lowest priority).

The levels in the hierarchy are defined as follows:

Level 1: Inputs to the valuation methodology are observable inputs that reflect quoted prices (unadjusted) for identical assets or liabilities in active markets

Level 2: Inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, and inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument

Level 3: Inputs to the valuation methodology are unobservable and significant to the fair value measurement

## Fair Value Measurements on a Recurring Basis

Following is a description of the valuation methodologies used for securities measured at fair value, as well as the general classification of such securities pursuant to the valuation hierarchy.

The Company determines the existence of an active market based on its judgment as to whether transactions for the financial instrument occur in such market with sufficient frequency and volume to provide reliable pricing information. The independent pricing sources obtain market quotations and actual transaction prices for securities that have quoted prices in active markets. The Company uses quoted values and other data provided by nationally recognized independent pricing sources as inputs into its process for determining fair values of its fixed maturity investments. To validate the techniques or models used by pricing sources, the Company's review process includes, but is not limited to: (i) quantitative analysis (e.g., comparing the quarterly return for each managed portfolio to its target benchmark, with significant differences identified and investigated); (ii) a review of the average number of prices obtained in the pricing process and the range of resulting fair values; (iii) initial and ongoing evaluation of methodologies used by outside parties to calculate fair value; (iv) comparing the fair value estimates to its knowledge of the current market; (v) a comparison of the pricing services' fair values to other pricing services' fair values for the same investments; and (vi) periodic back-testing, which includes randomly selecting purchased or sold securities and comparing the executed prices to the fair value estimates from the pricing service. For a majority of investments, the Company obtained multiple quotes. A price source hierarchy was maintained in order to determine which price source would be used (i.e., a price obtained from a pricing service with more seniority in the hierarchy will be used over a less senior one in all cases). The hierarchy prioritizes pricing services based on availability and reliability and assigns the highest priority to index providers. Based on the above review, the Company will challenge any prices for a security or portfolio which are considered not to be representative of fair value. At December 31, 2014, the Company adjusted certain prices (primarily on structured securities) obtained from the pricing services and substituted alternate prices (primarily broker-dealer quotes) for such securities. Such adjustments did not have a material impact on the overall fair value of the Company's investment portfolio at December 31, 2014.

The independent pricing sources obtain market quotations and actual transaction prices for securities that have quoted prices in active markets. Each source has its own proprietary method for determining the fair value of securities that are not actively traded. In general, these methods involve the use of "matrix pricing" in which the independent pricing source uses observable market inputs including, but not limited to, investment yields, credit risks and spreads, benchmarking of like securities, broker-dealer quotes, reported trades and sector groupings to determine a reasonable

fair value. In addition, pricing vendors use model processes, such as an Option Adjusted Spread model, to develop prepayment and interest rate scenarios. The Option Adjusted Spread model is commonly used to estimate fair value for securities such as mortgage backed and asset backed securities. In certain circumstances, when fair values are unavailable from these independent pricing sources, quotes are obtained directly from broker-dealers who are active in the corresponding markets. Such quotes are subject to the validation procedures noted above. Of the \$15.1 billion of financial assets and liabilities measured at fair

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value at December 31, 2014, approximately \$260.8 million, or 1.7%, were priced using non-binding broker-dealer quotes. Of the \$13.4 billion of financial assets and liabilities measured at fair value at December 31, 2013, approximately \$601.9 million, or 4.5%, were priced using non-binding broker-dealer quotes.

The Company reviews its securities measured at fair value and discusses the proper classification of such investments with investment advisors and others. A discussion of the general classification of the Company's financial instruments follows:

**Fixed maturities.** The Company determined that all U.S. Treasuries would be classified as Level 1 securities due to observed levels of trading activity, the high number of strongly correlated pricing quotes received on U.S. Treasuries and other factors. Where the Company believes that quoted market prices are not available or that the market is not active, fair values are estimated by using quoted prices of securities with similar characteristics, pricing models or matrix pricing and are generally classified as Level 2 securities. The Company determined that Level 2 securities included corporate bonds, mortgage backed securities, municipal bonds, asset backed securities and non-U.S. government securities. The Company determined that certain corporate bonds and asset backed securities for which there is a low level of transparency around inputs to the valuation process should be classified within Level 3 of the valuation hierarchy.

**Equity securities.** The Company determined that exchange-traded equity securities would be included in Level 1 as their fair values are based on quoted market prices in active markets. Other equity securities are included in Level 2 of the valuation hierarchy.

**Other investments.** The fair values for certain of the Company's other investments are determined using net asset values ("NAV") as advised by external fund managers. The NAV is based on the fund manager's valuation of the underlying holdings in accordance with the fund's governing documents. Periodically, the Company performs a number of monitoring procedures in order to assess the quality of the NAVs, including regular review and discussion of each fund's performance, regular evaluation of fund performance against applicable benchmarks and the backtesting of the NAVs against audited and interim financial statements. Other investments with liquidity terms allowing the Company to substantially redeem its holdings in a short time frame at the applicable NAV are reflected in Level 2. Other investments with redemption restrictions that prevent the Company from redeeming in the near term are classified in Level 3 of the valuation hierarchy.

**Short-term investments.** The Company determined that certain of its short-term investments held in highly liquid money market-type funds would be included in Level 1 as their fair values are based on quoted market prices in active markets. Other short-term investments are classified in Level 2 of the valuation hierarchy.

In securities lending transactions, the Company receives collateral in excess of the fair value of the fixed maturities and short-term investments pledged under securities lending agreements. For purposes of the following tables, the Company has excluded the collateral received and reinvested and included the fixed maturities and short-term investments pledged under securities lending agreements, at fair value.

**Contingent consideration liability.** The contingent consideration liability (included in 'other liabilities' in the consolidated balance sheets) resulted from the acquisition of the CMG Entities and is remeasured at fair value at each balance sheet date. Changes in fair value are recognized in 'net realized gains (losses).' To determine the fair value of the contingent consideration liability, the Company estimates future payments using an income approach based on modeled inputs which include a weighted average cost of capital. The Company determined that the contingent consideration liability would be included in Level 3 of the valuation hierarchy.

The Company reviews the classification of its investments each quarter. No transfers were made between Level 1 and Level 2 in 2012, 2013 or 2014. In the 2014 fourth quarter, the Company determined that certain asset backed



securities would be included in Level 3 due to a review of the pricing inputs used on such securities. This resulted in a transfer of \$57.5 million from Level 2 into Level 3 in the 2014 fourth quarter.

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The following table presents the Company's financial assets and liabilities measured at fair value by level at December 31, 2014:

	Estimated Fair Value	Fair Value Measurement Using:		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets measured at fair value:				
Available for sale securities:				
Fixed maturities and fixed maturities pledged under securities lending agreements (1):				
Corporate bonds	\$3,108,513	\$—	\$3,108,513	\$—
Mortgage backed securities	943,343	—	943,343	—
Municipal bonds	1,494,122	—	1,494,122	—
Commercial mortgage backed securities	1,114,528	—	1,114,528	—
U.S. government and government agencies	1,447,972	1,447,972	—	—
Non-U.S. government securities	1,015,153	—	1,015,153	—
Asset backed securities	1,677,941	—	1,620,441	57,500
Total	10,801,572	1,447,972	9,296,100	57,500
Equity securities	658,182	658,182	—	—
Other investments	296,224	—	192,687	103,537
Short-term investments	797,226	759,621	37,605	—
Fair value option:				
Investments accounted for using the fair value option:				
Corporate bonds	497,101	—	497,101	—
Non-U.S. government bonds	88,411	—	88,411	—
Mortgage backed securities	22,190	—	22,190	—
Asset backed securities	24,322	—	24,322	—
Other investments	1,551,907	—	1,085,557	466,350
Short-term investments	251,601	250,580	1,021	—
Total	2,435,532	250,580	1,718,602	466,350
Total assets measured at fair value	\$14,988,736	\$3,116,355	\$11,244,994	\$627,387
Liabilities measured at fair value:				
Contingent consideration liability	\$(61,845)	) \$—	\$—	\$(61,845)
Total liabilities measured at fair value	\$(61,845)	) \$—	\$—	\$(61,845)

In securities lending transactions, the Company receives collateral in excess of the fair value of the fixed maturities (1) and short-term investments pledged. For purposes of this table, the Company has excluded the collateral received and reinvested and included the fixed maturities and short-term investments pledged.



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The following table presents the Company's financial assets and liabilities measured at fair value by level at December 31, 2013:

	Estimated Fair Value	Fair Value Measurement Using:		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets measured at fair value:				
Available for sale securities:				
Fixed maturities and fixed maturities pledged under securities lending agreements (1):				
Corporate bonds	\$2,267,263	\$—	\$2,265,218	\$2,045
Mortgage backed securities	1,133,095	—	1,133,095	—
Municipal bonds	1,481,738	—	1,481,738	—
Commercial mortgage backed securities	1,074,497	—	1,074,497	—
U.S. government and government agencies	1,301,809	1,301,809	—	—
Non-U.S. government securities	1,085,861	—	1,085,861	—
Asset backed securities	1,332,594	—	1,332,594	—
Total	9,676,857	1,301,809	8,373,003	2,045
Equity securities	496,824	496,738	86	—
Other investments	498,310	—	327,890	170,420
Short-term investments	1,478,367	1,427,744	50,623	—
Fair value option:				
Investments accounted for using the fair value option:				
Corporate bonds	334,065	—	334,065	—
Non-U.S. government bonds	73,156	—	73,156	—
Mortgage backed securities	41,033	—	41,033	—
Other investments	773,280	—	395,755	377,525
Total	1,221,534	—	844,009	377,525
Total assets measured at fair value	\$13,371,892	\$3,226,291	\$9,595,611	\$549,990

In securities lending transactions, the Company receives collateral in excess of the fair value of the fixed maturities (1) and short-term investments pledged. For purposes of this table, the Company has excluded the collateral received and reinvested and included the fixed maturities and short-term investments pledged.

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The following table presents a reconciliation of the beginning and ending balances for all investments measured at fair value on a recurring basis using Level 3 inputs for 2014, 2013 and 2012:

	Fair Value Measurements Using: Significant Unobservable Inputs (Level 3)					Liabilities  Contingent Consideration Liability
	Assets			Fair value option		
	Available for sale  Asset Backed Securities	Corporate Bonds	Other Investments	Other Investments	Total	
<b>Year Ended December 31, 2014</b>						
Balance at beginning of year	\$—	\$2,045	\$170,420	\$377,525	\$549,990	\$—
Total gains or (losses) (realized/unrealized)						
Included in earnings (1)	—	—	(39 )	16,818	16,779	(20,083 )
Included in other comprehensive income	—	—	(680 )	932	252	—
Purchases, issuances and settlements						
Purchases	—	—	—	185,224	185,224	—
Issuances	—	—	—	—	—	(41,762 )
Sales	—	(2,045 )	(66,164 )	—	(68,209 )	—
Settlements	—	—	—	(114,149 )	(114,149 )	—
Transfers in and/or out of Level 3	57,500	—	—	—	57,500	—
Balance at end of year	\$57,500	\$—	\$103,537	\$466,350	\$627,387	\$(61,845 )
<b>Year Ended December 31, 2013</b>						
Balance at beginning of year	\$—	\$98,404	\$184,202	\$195,350	\$477,956	\$—
Total gains or (losses) (realized/unrealized)						
Included in earnings (1)	—	4,679	8,915	11,743	25,337	—
Included in other comprehensive income	—	(3,051 )	473	—	(2,578 )	—
Purchases, issuances and settlements						
Purchases	—	—	25,000	275,067	300,067	—
Issuances	—	—	—	—	—	—
Sales	—	(96,655 )	—	(20,156 )	(116,811 )	—
Settlements	—	(1,332 )	(48,170 )	(84,479 )	(133,981 )	—
Transfers in and/or out of Level 3	—	—	—	—	—	—
Balance at end of year	\$—	\$2,045	\$170,420	\$377,525	\$549,990	\$—

Gains or losses on corporate bonds were included in net realized gains (losses) while gains or losses on other (1) investments were included in net realized gains (losses) or net investment income. Amounts related to the contingent consideration liability were included in net realized gains (losses).

The amount of total gains for 2014 included in earnings attributable to the change in unrealized gains or losses relating to assets still held at December 31, 2014 was \$11.5 million. The amount of total gains for 2013 included in earnings attributable to the change in unrealized gains or losses relating to assets still held at December 31, 2013 was \$22.0 million.

**Fair Value Measurements on a Non-Recurring Basis**

The Company measures the fair value of certain assets on a non-recurring basis, generally quarterly, annually, or when events or changes in circumstances indicate that the carrying amount of the assets may not be recoverable. These assets include investment funds accounted for using the equity method, investment in joint venture, certain other investments, goodwill and intangible assets, and long-lived assets. The Company uses a variety of techniques to measure the fair value of these assets when appropriate, as described below:

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Investments accounted for using the equity method and Investment in joint venture. When the Company determines that the carrying value of these assets may not be recoverable, the Company records the assets at fair value with the loss recognized in income. In such cases, the Company measures the fair value of these assets using the techniques discussed above in “—Fair Value Measurements on a Recurring Basis.”

Goodwill and Intangible Assets. The Company tests goodwill and intangible assets for impairment whenever events or changes in circumstances indicate the carrying amount may not be recoverable, but at least annually for goodwill. When the Company determines goodwill and intangible assets may be impaired, the Company uses techniques including discounted expected future cash flows, to measure fair value.

Long-Lived Assets. The Company tests its long-lived assets for impairment whenever events or changes in circumstances indicate the carrying amount of a long-lived asset may not be recoverable.

10. Investment in Joint Venture

In May 2008, the Company provided \$100.0 million of funding to Gulf Reinsurance Limited (“Gulf Re”), a newly formed reinsurer based in the Dubai International Financial Centre, pursuant to the joint venture agreement with Gulf Investment Corporation GSC (“GIC”). Under the agreement, Arch Re Bermuda and GIC each own 50% of Gulf Re, which commenced underwriting activities in June 2008. Gulf Re provides property and casualty reinsurance primarily in the member states of the Gulf Cooperation Council, which include Bahrain, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates. The initial capital of the joint venture consisted of \$200.0 million. The Company accounts for its investment in Gulf Re, shown as “Investment in joint venture,” using the equity method and records its equity in the operating results of Gulf Re in “Other income (loss).”

For 2014, the Company recorded \$14.1 million of losses from Gulf Re, compared to \$0.4 million of losses for 2013 and \$1.1 million of losses for 2012. Gulf Re’s losses for 2014 primarily reflected the impact of a number of large technical risk claims. The Company entered into a number of strategic initiatives related to Gulf Re in the 2014 fourth quarter, including an agreement to acquire complete ownership of Gulf Re, which is pending approval by the Dubai Financial Services Authority. To further support Gulf Re’s business in advance of the January 1 renewal season, the Company entered into a 90% whole account quota share retrocession arrangement of Gulf Re’s net liabilities and a portfolio transfer of all of Gulf Re’s existing business on a funds withheld basis, effective as of October 1, 2014. The portfolio transfer included approximately \$50 million of net unearned premium reserves and \$65 million of net reserves for losses and loss adjustment expenses.

11. Derivative Instruments

The Company’s investment strategy allows for the use of derivative securities. The Company’s derivative instruments are recorded on its consolidated balance sheets at fair value. The fair values of those derivatives are based on quoted market prices. All realized and unrealized contract gains and losses are reflected in the Company’s results of operations. The Company utilizes exchange traded U.S. Treasury note, Eurodollar and other futures contracts and commodity futures to manage portfolio duration or replicate investment positions in its portfolios. Certain of the Company’s corporate bonds are managed in a global bond portfolio which incorporates the use of foreign currency forward contracts which are intended to provide an economic hedge against foreign currency movements on the portfolio’s non-U.S. Dollar denominated holdings. The Company routinely utilizes other foreign currency forward contracts, currency options, index futures contracts and other derivatives as part of its total return objective.

In addition, the Company purchases to-be-announced mortgage backed securities (“TBAs”) as part of its investment strategy. TBAs represent commitments to purchase a future issuance of agency mortgage backed securities. For the period between purchase of a TBA and issuance of the underlying security, the Company’s position is accounted for as a derivative. The Company purchases TBAs in both long and short positions to enhance investment performance and as part of its overall investment strategy. The Company did not hold any derivatives which were designated as hedging instruments at December 31, 2014 or 2013.





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The following table summarizes information on the fair values and notional values of the Company's derivative instruments. The fair value of TBAs is included in "fixed maturities available for sale, at fair value."

	Asset Derivatives Fair Value	Liability Derivatives Fair Value	Net Derivatives Fair Value	Notional Value (1)
December 31, 2014				
Futures contracts	\$2,156	\$(1,907 )	\$249	\$2,549,027
Foreign currency forward contracts	10,511	(1,145 )	9,366	397,106
TBAs	10,592	—	10,592	10,056
Other	3,209	(2,345 )	864	735,684
Total	\$26,468	\$(5,397 )	\$21,071	
December 31, 2013				
Futures contracts	\$461	\$(110 )	\$351	\$475,967
Foreign currency forward contracts	5,023	(3,090 )	1,933	330,746
TBAs	33,455	(21,731 )	11,724	56,160
Other	920	(1,541 )	(621 )	347,916
Total	\$39,859	\$(26,472 )	\$13,387	

(1) Represents the absolute notional value of all outstanding contracts, consisting of long and short positions.

The Company's derivative instruments are generally traded under master netting agreements, which establish terms that apply to all derivative transactions with a counterparty. In the event of a bankruptcy or other stipulated event of default, such agreements provide that the non-defaulting party may elect to terminate all outstanding derivative transactions, in which case all individual derivative positions (loss or gain) with a counterparty are closed out and netted and replaced with a single amount, usually referred to as the termination amount, which is expressed in a single currency. The resulting single net amount, where positive, is payable to the party "in-the-money" regardless of whether or not it is the defaulting party, unless the parties have agreed that only the non-defaulting party is entitled to receive a termination payment where the net amount is positive and is in its favor. Effectively, contractual close-out netting reduces derivatives credit exposure from gross to net exposure. At December 31, 2014, \$25.3 million and \$5.4 million, respectively, of asset derivatives and liability derivatives were subject to a master netting agreement or similar arrangement, compared to \$28.0 million and \$14.6 million, respectively, at December 31, 2013. The remaining derivatives included in the table above were not subject to a master netting agreement.

The following table summarizes net realized gains (losses) recorded on the Company's derivative instruments in the consolidated statements of income:

Derivatives not designated as hedging instruments	Year Ended December 31,		
	2014	2013	2012
Futures contracts	\$30,444	\$10,742	\$(3,307 )
Foreign currency forward contracts	13,430	9,762	(214 )
TBAs	(342 )	(1,623 )	4,413
Other	402	2,031	(2,218 )
Total	\$43,934	\$20,912	\$(1,326 )



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## 12. Other Comprehensive Income (Loss)

The following table presents the changes in each component of accumulated other comprehensive income ("AOCI"), net of tax:

	Unrealized Appreciation on Available-For-Sale Investments	Foreign Currency Translation Adjustments	Total
Year Ended December 31, 2014			
Beginning balance	\$ 80,692	\$(5,728)	) \$74,964
Other comprehensive income (loss) before reclassifications	146,010	(27,014)	) 118,996
Amounts reclassified from accumulated other comprehensive income	(65,104)	) —	(65,104)
Net current period other comprehensive income (loss)	80,906	(27,014)	) 53,892
Ending balance	\$ 161,598	\$(32,742)	) \$128,856
Year Ended December 31, 2013			
Beginning balance	\$ 289,956	\$(2,939)	) \$287,017
Other comprehensive income (loss) before reclassifications	(176,578)	) (2,789)	) (179,367)
Amounts reclassified from accumulated other comprehensive income	(32,686)	) —	(32,686)
Net current period other comprehensive income (loss)	(209,264)	) (2,789)	) (212,053)
Ending balance	\$ 80,692	\$(5,728)	) \$74,964
Year Ended December 31, 2012			
Beginning balance	\$ 174,636	\$(20,713)	) \$153,923
Other comprehensive income (loss) before reclassifications	273,144	17,774	290,918
Amounts reclassified from accumulated other comprehensive income	(157,824)	) —	(157,824)
Net current period other comprehensive income (loss)	115,320	17,774	133,094
Ending balance	\$ 289,956	\$(2,939)	) \$287,017

The following table presents details about amounts reclassified from accumulated other comprehensive income:

Details About AOCI Components	Consolidated Statement of Income Line Item That Includes Reclassification	Amounts Reclassed from AOCI		
		Year Ended December 31,		2012
		2014	2013	
Unrealized appreciation on available-for-sale investments				
	Net realized gains	\$ 102,223	\$ 39,308	\$ 180,144
	Other-than-temporary impairment losses	(30,470)	) (3,961)	) (12,175)
	Total before tax	71,753	35,347	167,969
	Income tax expense	(6,649)	) (2,661)	) (10,145)
	Net of tax	\$ 65,104	\$ 32,686	\$ 157,824



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Following are the related tax effects allocated to each component of other comprehensive income (loss):

	Before Tax Amount	Tax Expense (Benefit)	Net of Tax Amount
<b>Year Ended December 31, 2014</b>			
Unrealized appreciation (decline) in value of available-for-sale investments:			
Unrealized holding losses arising during period	\$ 161,685	\$ 15,355	\$ 146,330
Portion of other-than-temporary impairment losses recognized in other comprehensive income (loss)	(320)	—	(320)
Less reclassification of net realized gains included in net income	71,753	6,649	65,104
Foreign currency translation adjustments	(27,014)	—	(27,014)
Other comprehensive income (loss)	\$ 62,598	\$ 8,706	\$ 53,892
<b>Year Ended December 31, 2013</b>			
Unrealized appreciation (decline) in value of available-for-sale investments:			
Unrealized holding gains arising during period	\$(201,386)	\$(24,983)	\$(176,403)
Portion of other-than-temporary impairment losses recognized in other comprehensive income (loss)	(175)	—	(175)
Less reclassification of net realized gains included in net income	35,347	2,661	32,686
Foreign currency translation adjustments	(2,789)	—	(2,789)
Other comprehensive income (loss)	\$(239,697)	\$(27,644)	\$(212,053)
<b>Year Ended December 31, 2012</b>			
Unrealized appreciation (decline) in value of available-for-sale investments:			
Unrealized holding gains arising during period	\$ 278,917	\$ 4,986	\$ 273,931
Portion of other-than-temporary impairment losses recognized in other comprehensive income (loss)	(787)	—	(787)
Less reclassification of net realized gains included in net income	167,969	10,145	157,824
Foreign currency translation adjustments	18,748	974	17,774
Other comprehensive income (loss)	\$ 128,909	\$ (4,185)	\$ 133,094

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## 13. Earnings Per Common Share

The calculation of basic earnings per common share excludes dilutive securities and is computed by dividing income available to Arch common shareholders by the weighted average number of Common Shares, including vested restricted shares, outstanding for the periods. The following table sets forth the computation of basic and diluted earnings per common share:

	Year Ended December 31,		
	2014	2013	2012
Numerator:			
Net income	\$821,260	\$709,731	\$593,397
Amounts attributable to noncontrolling interests	13,095	—	—
Net income available to Arch	834,355	709,731	593,397
Preferred dividends	(21,938	) (21,938	) (25,079
Loss on repurchase of preferred shares	—	—	(10,612
Net income available to Arch common shareholders	\$812,417	\$687,793	\$557,706
Denominator:			
Weighted average common shares outstanding – basic	130,817,610	131,355,392	134,446,158
Effect of dilutive common share equivalents:			
Nonvested restricted shares	1,128,540	1,090,100	857,174
Stock options (1)	2,976,172	3,331,691	2,955,515
Weighted average common shares and common share equivalents outstanding – diluted	134,922,322	135,777,183	138,258,847
Earnings per common share:			
Basic	\$6.21	\$5.24	\$4.15
Diluted	\$6.02	\$5.07	\$4.03

Certain stock options were not included in the computation of diluted earnings per share where the exercise price of the stock options exceeded the average market price and would have been anti-dilutive or where, when applying (1) the treasury stock method to in-the-money options, the sum of the proceeds, including unrecognized compensation, exceeded the average market price and would have been anti-dilutive. For 2014, 2013 and 2012, the number of stock options excluded were 1,435,955, 892,439 and 839,414, respectively.

## 14. Income Taxes

ACGL is incorporated under the laws of Bermuda and, under current Bermuda law, is not obligated to pay any taxes in Bermuda based upon income or capital gains. The Company has received a written undertaking from the Minister of Finance in Bermuda under the Exempted Undertakings Tax Protection Act 1966 that, in the event that any legislation is enacted in Bermuda imposing any tax computed on profits, income, gain or appreciation on any capital asset, or any tax in the nature of estate duty or inheritance tax, such tax will not be applicable to ACGL or any of its operations until March 31, 2035. This undertaking does not, however, prevent the imposition of taxes on any person ordinarily resident in Bermuda or any company in respect of its ownership of real property or leasehold interests in Bermuda.

ACGL and its non-U.S. subsidiaries will be subject to U.S. federal income tax only to the extent that they derive U.S. source income that is subject to U.S. withholding tax or income that is effectively connected with the conduct of a trade or business within the U.S. and is not exempt from U.S. tax under an applicable income tax treaty with the U.S. ACGL and its non-U.S. subsidiaries will be subject to a withholding tax on dividends from U.S. investments and interest from certain U.S. payors (subject to reduction by any applicable income tax treaty). ACGL and its non-U.S. subsidiaries intend to conduct their operations in a manner that will not cause them to be treated as engaged in a trade

or business in the United States and, therefore, will not be required to pay U.S. federal income taxes (other than U.S. excise taxes on insurance and reinsurance premium and withholding taxes on dividends and certain other U.S. source investment income). However, because there is uncertainty as to the activities which constitute being engaged in a trade or business within the United States, there can be no assurances that the U.S. Internal Revenue Service will not contend successfully that ACGL or its non-U.S. subsidiaries are engaged in a trade or business in the United States. If ACGL or any of its non-U.S. subsidiaries were subject to U.S. income tax, ACGL's shareholders' equity and earnings could be materially adversely affected. ACGL has subsidiaries and branches that operate in various jurisdictions around the world that are subject to tax in the

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jurisdictions in which they operate. The significant jurisdictions in which ACGL's subsidiaries and branches are subject to tax include the United States, United Kingdom, Ireland, Canada, Switzerland and Denmark.

The components of income taxes attributable to operations were as follows:

	Year Ended December 31,			
	2014	2013	2012	
Current expense (benefit):				
United States	\$29,749	\$27,537	\$8,267	
Non-U.S.	801	5,159	737	
	30,550	32,696	9,004	
Deferred expense (benefit):				
United States	(8,168	) 1,937	(9,779	)
Non-U.S.	605	(1,859	) (3,235	)
	(7,563	) 78	(13,014	)
Income tax expense (benefit)	\$22,987	\$32,774	\$(4,010	)

The Company's income or loss before income taxes was earned in the following jurisdictions:

	Year Ended December 31,			
	2014	2013	2012	
Income (Loss) Before Income Taxes:				
Bermuda	\$794,926	\$717,661	\$609,710	
United States	53,055	87,032	9,600	
Other	(3,734	) (62,188	) (29,923	)
Total	\$844,247	\$742,505	\$589,387	

The expected tax provision computed on pre-tax income or loss at the weighted average tax rate has been calculated as the sum of the pre-tax income in each jurisdiction multiplied by that jurisdiction's applicable statutory tax rate. The statutory tax rates by jurisdiction were as follows: Bermuda (0.0%), United States (35.0%), United Kingdom (21.5%), Ireland (12.5%), Denmark (24.5%), Canada (24.0%), Gibraltar (10.0%) and the Netherlands (23.9%).

A reconciliation of the difference between the provision for income taxes and the expected tax provision at the weighted average tax rate follows:

	Year Ended December 31,			
	2014	2013	2012	
Expected income tax expense (benefit) computed on pre-tax income at weighted average income tax rate	\$18,178	\$17,506	\$(3,426	)
Addition (reduction) in income tax expense (benefit) resulting from:				
Tax-exempt investment income	(8,048	) (8,255	) (9,257	)
Meals and entertainment	711	599	688	
State taxes, net of U.S. federal tax benefit	1,281	431	270	
Foreign branch taxes	464	703	544	
Prior year adjustment	320	2,810	(1,581	)
Foreign exchange gains & losses	746	(1,254	) (436	)
Changes in applicable tax rate	(51	) 2,007	1,193	
Dividend withholding taxes	3,276	4,619	2,511	
Change in valuation allowance	(736	) 11,795	4,281	
Contingent consideration	6,763	—	—	
Other	83	1,813	1,203	
Income tax expense (benefit)	\$22,987	\$32,774	\$(4,010	)





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Deferred income tax assets and liabilities reflect temporary differences based on enacted tax rates between the carrying amounts of assets and liabilities for financial reporting and income tax purposes. Significant components of the Company's deferred income tax assets and liabilities were as follows:

	December 31,	
	2014	2013
Deferred income tax assets:		
Net operating loss	\$ 12,017	\$ 15,294
AMT credit carryforward	5,309	14,456
Discounting of net loss reserves	63,880	53,293
Net unearned premium reserve	34,087	30,698
Compensation liabilities	27,765	26,481
Foreign tax credit carryforward	4,628	4,343
Interest expense	5,208	6,049
Goodwill	885	—
Tax and loss bonds	21,247	—
Other, net	13,408	13,347
Deferred tax assets before valuation allowance	188,434	163,961
Valuation allowance	(12,624)	(15,548)
Deferred tax assets net of valuation allowance	175,810	148,413
Deferred income tax liabilities:		
Depreciation and amortization	(7,579)	(3,810)
Deferred acquisition costs, net	(2,744)	(3,369)
Deposit accounting liability	(4,170)	(4,581)
Contingency reserve	(18,480)	—
Net unrealized appreciation of investments	(11,695)	(6,354)
Other, net	(150)	(1,738)
Total deferred tax liabilities	(44,818)	(19,852)
Net deferred income tax assets	\$ 130,992	\$ 128,561

The Company provides a valuation allowance to reduce certain deferred tax assets to an amount which management expects to more likely than not be realized. As of December 31, 2014, the Company's valuation allowance was \$12.6 million, compared to \$15.5 million at December 31, 2013. The valuation allowance in both periods was primarily attributable to (1) a full valuation allowance on the Company's Canadian operations; (2) unutilized foreign tax credits; and (3) certain other deferred tax assets relating to carryforwards that have a limited use.

At December 31, 2014, the Company has net operating loss carryforwards in its U.K. operating subsidiaries of approximately \$20.7 million. Additionally, the Company's U.K. operations have a foreign tax credit carryforward of \$4.6 million at December 31, 2014. These operating losses and foreign tax credits can be carried forward without expiration. Due to uncertainty surrounding their future utilization, valuation allowances of \$0.2 million and \$4.6 million have been established in respect of \$1.2 million U.K. operating losses and \$4.6 million foreign tax credits respectively.

At December 31, 2014, net operating loss carryforwards in Ireland were approximately \$10.0 million. Although these losses may be carried forward indefinitely, a valuation allowance of \$0.3 million has been established in respect of \$2.5 million of these losses given management's expectation that losses in a specific Irish entity will not be utilized in the future.

At December 31, 2014, net operating loss carryforwards in the U.S. were approximately \$18.9 million. Such net operating loss carryforwards are currently available to offset future taxable income of the Company's U.S. subsidiaries. Under applicable law, the U.S. net operating loss carryforwards expire between 2029 and 2034. On January 30, 2014,

the Company's U.S. mortgage operations underwent an ownership change for U.S. federal income tax purposes as a result of the Company's acquisition of the CMG Entities. As a result of this ownership change, a limitation has been imposed upon the utilization of approximately \$12.1 million of the Company's existing U.S. net operating loss carryforwards. Utilization is limited to approximately \$0.6 million per year in accordance with Section 382 of the Internal Revenue Code of 1986 as amended ("the Code"). Additionally, the Company has an alternative minimum tax ("AMT") credit carryforward in the amount of \$5.3 million which can be carried forward indefinitely. Given the Company's U.S. mortgage operations, the Company is eligible for a tax deduction, subject to certain limitations, under Section 832(e) of the Code for amounts required by state law or regulation to be set aside in statutory

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contingency reserves. The deduction is allowed only to the extent that the Company purchases non-interest bearing U.S. Mortgage Guaranty Tax and Loss Bonds (“T&L Bonds”) issued by the Treasury Department in an amount equal to the tax benefit derived from deducting any portion of the statutory contingency reserves.

Cumulative T&L bonds purchased and subsequent redemptions are reflected in the Company’s deferred tax asset and total approximately \$21.2 million at December 31, 2014.

Deferred income tax liabilities have not been accrued with respect to all of the undistributed earnings of the Company's U.S. and Canadian subsidiaries. If the earnings were to be distributed, as dividends or otherwise, such amounts may be subject to withholding tax in the jurisdiction of the paying entity. No withholding taxes have been accrued with respect to the earnings of the Company's U.S. and Canadian subsidiaries, as it is the intention that all such earnings will be permanently reinvested. Additionally, determining the amount of the related deferred income tax liability is not practicable.

The Company recognizes interest and penalties relating to unrecognized tax benefits in the provision for income taxes. As of December 31, 2014, the Company’s total unrecognized tax benefits, including interest and penalties, were nil. The Company or its subsidiaries or branches files income tax returns in the U.S. federal jurisdiction and various state, local and foreign jurisdictions. The Company has an open examination by the tax authorities in the U.S. for the 2009 and 2011 tax years. The Company believes that this examination will be concluded within the next 12 months. While the Company cannot estimate with certainty the outcome of this examination, the Company does not believe that adjustments from this examination will result in a significant change to the Company’s results of operation. The following table details open tax years that are potentially subject to examination by local tax authorities, in the following major jurisdictions:

Jurisdiction	Tax Years
United States	2009-2014
United Kingdom	2009-2014
Ireland	2010-2014
Canada	2010-2014
Switzerland	2011-2014
Denmark	2011-2014

As of December 31, 2014, the Company’s current income tax payable (included in “Other liabilities”) was \$3.6 million.

#### 15. Transactions with Related Parties

The Company made an investment of \$50.0 million in Aeolus LP (“Aeolus”) in 2006. Aeolus operates as an unrated reinsurance platform that provides property catastrophe protection to insurers and reinsurers on both an ultimate net loss and industry loss warranty basis. The Company’s investment in Aeolus, included in “Investments accounted for using the equity method” on the balance sheet, represents an approximate 4% share in Aeolus and is accounted for using the equity method. The Company made its investment in Aeolus on the same economic terms as a fund affiliated with Warburg Pincus LLC. During 2010, all remaining shares of the Company owned by funds affiliated with Warburg Pincus LLC were distributed. In addition, one of the founders of Aeolus is Peter Appel, former President and CEO and a former director of the Company. During 2014, 2013 and 2012, the Company received distributions of \$0.6 million, \$2.1 million and \$19.8 million, respectively, from Aeolus.

As part of its investment philosophy, the Company invests a portion of its investment portfolio in alternative investment funds. As of December 31, 2014, the Company had aggregate commitments of \$395.9 million to funds managed by The Carlyle Group (“Carlyle”). Of such amount, \$260.2 million was unfunded as of December 31, 2014. The Company may make additional commitments to funds managed by Carlyle from time to time. During 2014, 2013 and 2012, the Company made aggregate capital contributions to funds managed by Carlyle of \$51.7 million, \$60.8 million and \$43.0 million, respectively, and received aggregate cash distributions from funds managed by Carlyle of \$33.6 million, \$15.0 million and \$4.5 million, respectively. Kewsong Lee, a director of ACG, joined Carlyle as Managing Director and Deputy Chief Investment Officer for Corporate Private Equity on December 31, 2013.

See note 4, "Variable Interest Entity and Noncontrolling Interests," for information about Watford Re. Certain directors and executive officers of the Company own common and preference shares of Watford Re.

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16. Commitments and Contingencies

Concentrations of Credit Risk

The creditworthiness of a counterparty is evaluated by the Company, taking into account credit ratings assigned by independent agencies. The credit approval process involves an assessment of factors, including, among others, the counterparty, country and industry credit exposure limits. Collateral may be required, at the discretion of the Company, on certain transactions based on the creditworthiness of the counterparty.

The areas where significant concentrations of credit risk may exist include unpaid losses and loss adjustment expenses recoverable, prepaid reinsurance premiums and paid losses and loss adjustment expenses recoverable net of reinsurance balances payable (collectively, “reinsurance balances recoverable”), investments and cash and cash equivalent balances. The Company’s reinsurance balances recoverable at December 31, 2014 and 2013 amounted to \$1.97 billion and \$1.94 billion, respectively, and primarily resulted from reinsurance arrangements entered into in the course of its operations. A credit exposure exists with respect to reinsurance recoverables as they may become uncollectible. The Company manages its credit risk in its reinsurance relationships by transacting with reinsurers that it considers financially sound and, if necessary, the Company may hold collateral in the form of funds, trust accounts and/or irrevocable letters of credit. This collateral can be drawn on for amounts that remain unpaid beyond specified time periods on an individual reinsurer basis.

In addition, the Company underwrites a significant amount of its business through brokers and a credit risk exists should any of these brokers be unable to fulfill their contractual obligations with respect to the payments of insurance and reinsurance balances owed to the Company. During 2014, approximately 13.4% and 15.0% of the Company’s consolidated gross written premiums were generated from or placed by Aon Corporation and its subsidiaries and Marsh & McLennan Companies and its subsidiaries, respectively, compared to approximately 16.0% and 17.0% for 2013, respectively, and 20.3% and 14.1% for 2012, respectively. No other broker and no one insured or reinsured accounted for more than 10% of gross premiums written for 2014, 2013 and 2012.

The Company’s available for sale investment portfolio is managed in accordance with guidelines that have been tailored to meet specific investment strategies, including standards of diversification, which limit the allowable holdings of any single issue. There were no investments in any entity in excess of 10% of the Company’s shareholders’ equity at December 31, 2014 other than investments issued or guaranteed by the United States government or its agencies.

Investment Commitments

The Company’s investment commitments, which are primarily related to agreements entered into by the Company to invest in funds and separately managed accounts when called upon, were approximately \$968.9 million at December 31, 2014.

Letter of Credit and Revolving Credit Facilities

As of December 31, 2014, the Company had a \$300.0 million unsecured revolving loan and letter of credit facility and a \$500.0 million secured letter of credit facility (the “Credit Agreement”). Under the terms of the Credit Agreement, Arch Re U.S. and Arch Re Bermuda are limited to issuing an aggregate of \$100.0 million of unsecured letters of credit as part of the \$300.0 million unsecured revolving loan. Borrowings of revolving loans may be made by ACGL at a variable rate based on LIBOR or an alternative base rate at the option of the Company. Secured letters of credit are available for issuance on behalf of the Company’s insurance and reinsurance subsidiaries. The Credit Agreement and related documents are structured such that each party that requests a letter of credit or borrowing does so only for itself and for only its own obligations. Issuance of letters of credit and borrowings under the Credit Agreement are subject to the Company’s compliance with certain covenants and conditions, including absence of a material adverse change. These covenants require, among other things, that the Company maintain a debt to total capital ratio of not greater than 0.35 to 1 and consolidated tangible net worth in excess of \$3.95 billion plus 25% of future aggregate net income for each quarterly period (not including any future net losses) beginning after March 31, 2014 and 25% of future aggregate proceeds from the issuance of common or preferred equity and that the Company’s principal insurance and

reinsurance subsidiaries maintain at least a “B++” rating from A.M. Best. In addition, certain of the Company’s subsidiaries which are party to the Credit Agreement are required to maintain minimum shareholders’ equity levels. The Company was in compliance with all covenants contained in the Credit Agreement at December 31, 2014. The Credit Agreement expires on June 30, 2019.

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In addition, the Company has access to secured letter of credit facilities for up to a total of \$190.9 million, which are available on a limited basis and for limited purposes (together with the secured portion of the Credit Agreement and these letter of credit facilities, the “LOC Facilities”). The principal purpose of the LOC Facilities is to issue, as required, evergreen standby letters of credit in favor of primary insurance or reinsurance counterparties with which the Company has entered into reinsurance arrangements to ensure that such counterparties are permitted to take credit for reinsurance obtained from the Company’s reinsurance subsidiaries in United States jurisdictions where such subsidiaries are not licensed or otherwise admitted as an insurer, as required under insurance regulations in the United States, and to comply with requirements of Lloyd’s of London in connection with qualifying quota share and other arrangements. The amount of letters of credit issued is driven by, among other things, the timing and payment of catastrophe losses, loss development of existing reserves, the payment pattern of such reserves, the further expansion of the Company’s business and the loss experience of such business. When issued, certain letters of credit are secured by a portion of the Company’s investment portfolio. In addition, the LOC Facilities also require the maintenance of certain covenants, which the Company was in compliance with at December 31, 2014. At such date, the Company had approximately \$423.2 million in outstanding letters of credit under the LOC Facilities, which were secured by investments with a fair value of \$483.5 million, and had \$100.0 million of borrowings outstanding under the Credit Agreement.

As of December 31, 2014, Watford Re had a \$200 million line of credit facility that expires on May 19, 2015. At December 31, 2014, Watford Re had \$26.0 million in outstanding letters of credit under that credit facility. Watford Re was in compliance with all covenants contained in its credit facility at December 31, 2014.

Leases and Purchase Obligations

At December 31, 2014, the future minimum rental commitments, exclusive of escalation clauses and maintenance costs and net of rental income, for all of the Company’s operating leases are as follows:

2015	\$23,343
2016	23,670
2017	22,539
2018	20,803
2019	17,705
Thereafter	46,672
Total	\$154,732

All of these leases are for the rental of office space, with expiration terms that range from 2015 to 2024. Rental expense, net of income from subleases, was approximately \$23.1 million, \$18.7 million and \$17.1 million for 2014, 2013 and 2012, respectively.

The Company has also entered into certain agreements which commit the Company to purchase goods or services, primarily related to software and computerized systems. Such purchase obligations were approximately \$22.2 million and \$35.9 million at December 31, 2014 and 2013, respectively.

Employment and Other Arrangements

At December 31, 2014, the Company has entered into employment agreements with certain of its executive officers for periods extending up to March 2018. Such employment arrangements provide for compensation in the form of base salary, annual bonus, share-based awards, participation in the Company’s employee benefit programs and the reimbursements of expenses.



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## 17. Senior Notes

On May 4, 2004, ACGL completed a public offering of \$300.0 million principal amount of 7.35% senior notes due May 1, 2034 (“ACGL Senior Notes”). The ACGL Senior Notes are ACGL’s senior unsecured obligations and rank equally with all of its existing and future senior unsecured indebtedness. Interest payments on the ACGL Senior Notes are due on May 1st and November 1st of each year. ACGL may redeem the ACGL Senior Notes at any time and from time to time, in whole or in part, at a “make-whole” redemption price. The fair value of the ACGL Senior Notes at December 31, 2014 and 2013 was \$462.4 million and \$381.0 million, respectively.

On December 13, 2013, Arch-U.S., a wholly-owned subsidiary of ACGL, completed a public offering of \$500.0 million principal amount of 5.144% senior notes due November 1, 2043 (“Arch-U.S. Senior Notes”), fully and unconditionally guaranteed by ACGL (the “Guarantee”). The Arch-U.S. Senior Notes are unsecured and unsubordinated obligations of Arch-U.S. and ACGL, respectively, and rank equally and ratably with the other unsecured and unsubordinated indebtedness of Arch-U.S. and ACGL, respectively. Interest payments on the Arch-U.S. Senior Notes are due on May 1st and November 1st of each year. Arch-U.S. may redeem the Arch-U.S. Senior Notes at any time and from time to time, in whole or in part, at a “make-whole” redemption price. The fair value of the Arch-U.S. Senior Notes at December 31, 2014 and 2013 was \$609.9 million and \$514.1 million, respectively.

## 18. Goodwill and Intangible Assets

The following table shows an analysis of goodwill and intangible assets:

	Goodwill	Intangible assets with an indefinite life	Intangible assets with finite life	Total
Net balance at December 31, 2012	\$—	\$16,666	\$21,593	\$38,259
Acquisitions	—	—	—	—
Amortization	—	—	(11,170)	(11,170)
Foreign currency translation adjustment	—	—	230	230
Net balance at December 31, 2013	—	16,666	10,653	27,319
Acquisitions	14,965	16,858	76,435	108,258
Amortization	—	—	(25,520)	(25,520)
Foreign currency translation adjustment	(19)	—	(499)	(518)
Net balance at December 31, 2014	\$14,946	\$33,524	\$61,069	\$109,539
Gross balance at December 31, 2014	\$14,965	\$33,524	\$124,908	\$173,397
Accumulated amortization	—	—	(63,439)	(63,439)
Foreign currency translation adjustment	(19)	—	(400)	(419)
Net balance at December 31, 2014	\$14,946	\$33,524	\$61,069	\$109,539

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The following table presents the components of intangible assets:

	Gross Balance	Accumulated Amortization	Foreign Currency Translation Adjustment	Net Balance
December 31, 2014				
Acquired insurance contracts	\$77,574	\$(47,710 )	\$(107 )	\$29,757
Operating platform	29,900	(5,482 )		24,418
Customer relationships	25,910	(12,283 )	(293 )	13,334
Goodwill	14,965	—	(19 )	14,946
Insurance licenses	33,524	—	—	33,524
Unfavorable service contract	(9,533 )	2,229 )	—	(7,304 )
Other	1,057	(193 )	—	864
Total	\$173,397	\$(63,439 )	\$(419 )	\$109,539
December 31, 2013				
Acquired insurance contracts	\$31,102	\$(28,208 )	\$—	\$2,894
Customer relationships	17,371	(9,711 )	99	7,759
Insurance licenses	16,666	—	—	16,666
Total	\$65,139	\$(37,919 )	\$99	\$27,319

The expected remaining amortization expense for intangible assets with a finite life is \$21.8 million for 2015, \$17.0 million for 2016, \$13.3 million for 2017, \$9.4 million for 2018 and \$0.8 million for 2019. The estimated remaining useful lives of these assets range from two to eight years at December 31, 2014.

The Company's impairment reviews for goodwill and intangible assets did not result in the recognition of impairment losses for 2014, 2013 and 2012.

## 19. Shareholders' Equity

## Authorized and Issued

The authorized share capital of the Company consists of 600 million Common Shares, par value of \$0.0033 per share, and 50 million Preferred Shares, par value of \$0.01 per share.

## Common Shares

The following table presents a roll-forward of changes in the Company's issued and outstanding Common Shares:

	Year Ended December 31,		
	2014	2013	2012
Common Shares:			
Shares issued and outstanding, beginning of year	169,560,591	168,255,572	164,636,338
Shares issued (1)	1,493,524	811,732	2,066,065
Restricted shares issued, net of cancellations	618,293	493,287	1,553,169
Shares issued, end of year	171,672,408	169,560,591	168,255,572
Common shares in treasury, end of year	(44,304,474 )	(35,885,707 )	(34,412,959 )
Shares issued and outstanding, end of year	127,367,934	133,674,884	133,842,613

(1) Includes shares issued from the exercise of stock options and stock appreciation rights, and shares issued from the employee share purchase plan.



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Share Repurchases

The board of directors of ACGL has authorized the investment in ACGL's common shares through a share repurchase program. Authorizations have consisted of a \$1.0 billion authorization in February 2007, a \$500.0 million authorization in May 2008, a \$1.0 billion authorization in November 2009, a \$1.0 billion authorization in February 2011 and a \$629.2 million authorization in November 2014. Since the inception of the share repurchase program through December 31, 2014, ACGL has repurchased approximately 118.1 million common shares for an aggregate purchase price of \$3.24 billion. During 2014, ACGL repurchased 8.2 million common shares for an aggregate purchase price of \$454.1 million, compared to 1.3 million common shares for an aggregate purchase price of \$57.8 million during 2013 and 3.9 million common shares for an aggregate purchase price of \$172.1 million during 2012. Weighted average shares outstanding for 2014 were reduced by 111.9 million shares, compared to 109.6 million shares for 2013 and 105.0 million shares for 2012. At December 31, 2014, approximately \$887.1 million of share repurchases were available under the program. Repurchases under the program may be effected from time to time in open market or privately negotiated transactions. The timing and amount of the repurchase transactions under this program will depend on a variety of factors, including market conditions and corporate and regulatory considerations.

Treasury Shares

In May 2010, ACGL's shareholders approved amendments to the bye-laws to permit ACGL to hold its own acquired shares as treasury shares in lieu of cancellation, as determined by ACGL's board of directors. From May 5, 2010 to December 31, 2014, all repurchases of ACGL's common shares in connection with the share repurchase plan noted above and other share-based transactions were held in the treasury under the cost method, and the cost of the common shares acquired is included in 'Common shares held in treasury, at cost.' At December 31, 2014, the Company held 44.3 million shares for an aggregate cost of \$1.56 billion in treasury, at cost.

Preferred Shares

On April 2, 2012, the Company completed the underwritten public offering of \$325.0 million of its 6.75% Series C non-cumulative preferred shares ("Preferred Shares"). Except in specified circumstances relating to certain tax or corporate events, the Preferred Shares are not redeemable prior to April 2, 2017. The net proceeds from the offering of \$315.8 million and other available funds were used to redeem all of the Company's \$200.0 million of 8.0% Series A preferred shares and \$125.0 million of 7.875% Series B preferred shares on May 2, 2012. The Series A preferred shares and Series B preferred shares were redeemed at a redemption price equal to \$25.00 per share, plus all declared and unpaid dividends to (but excluding) the redemption date.

Dividends on the Preferred Shares are non-cumulative. Consequently, in the event dividends are not declared on the Preferred Shares for any dividend period, holders of Preferred Shares will not be entitled to receive a dividend for such period, and such undeclared dividend will not accrue and will not be payable. Holders of Preferred Shares will be entitled to receive dividend payments only when, as and if declared by ACGL's board of directors or a duly authorized committee of the board of directors. Any such dividends will be payable from the date of original issue on a non-cumulative basis, quarterly in arrears. To the extent declared, these dividends will accumulate, with respect to each dividend period, in an amount per share equal to 6.75% of the \$25.00 liquidation preference per annum. The Company paid dividends of \$21.9 million in 2014, compared to \$21.9 million in 2013 and \$28.4 million in 2012 to holders of the Company's preferred shares.

20. Share-Based Compensation

Long Term Incentive and Share Award Plans

The 2012 Long Term Incentive and Share Award Plan (the "2012 Plan") became effective as of May 9, 2012 (the "Effective Date") following approval by shareholders of the Company. The 2012 Plan is intended to provide for competitive compensation opportunities, to encourage long-term service, to recognize individual contributions and reward achievement of performance goals and to promote the creation of long-term value for shareholders by aligning the interests of such persons with those of shareholders. The 2012 Plan provides for the grant to eligible employees and directors stock options, stock appreciation rights ("SARs"), restricted shares, restricted share units payable in

common shares or cash, share awards in lieu of cash awards, dividend equivalents and other share-based awards. The 2012 Plan also provides the Company's non-employee directors with the opportunity to receive the annual retainer fee for Board service in common shares. The 2012 Plan will terminate as to future awards on February 28, 2022.

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The 2007 Long Term Incentive and Share Award Plan (the “2007 Plan”) was merged with and into the 2012 Plan as of the Effective Date. As of the Effective Date, the 3,153,924 remaining shares available for issuance under the 2007 Plan were transferred into the 2012 Plan and as of such date no additional grants may be made under the 2007 Plan. Grants which were outstanding under the 2007 Plan as of the Effective Date will continue in accordance with their original terms (subject to such amendments as the compensation committee determines appropriate, consistent with the terms of the 2007 Plan) and will be issued or transferred under the 2012 Plan.

The number of common shares reserved for grants of awards under the 2012 Plan, subject to anti-dilution adjustments in the event of certain changes in the Company’s capital structure is 7,433,924 which is the sum of (i) 4,280,000 and (ii) 3,153,924 shares remaining available for grants under the 2007 Plan. In addition, no more than 50% of such common shares may be issued in connection with full value awards (i.e., awards other than stock options or SARs) and no more than 2,000,000 common shares may be issued as incentive stock options under Section 422 of the Code. At December 31, 2014, 980,571 shares are available for grant under the 2012 Plan.

On May 11, 2007, following shareholder approval, the Company adopted the 2007 Employee Share Purchase Plan (the “ESPP”). The purpose of the ESPP is to give employees of ACGL and its subsidiaries an opportunity to purchase common shares through payroll deductions, thereby encouraging employees to share in the economic growth and success of ACGL and its subsidiaries. The ESPP is designed to qualify as an “employee share purchase plan” under Section 423 of the Code. A total of 2,250,000 common shares are reserved for issuance under the ESPP. At December 31, 2014, approximately 762,293 shares remain available for issuance. The ESPP provides for consecutive six-month offering periods (or other periods of not more than 27 months as determined by the compensation committee) under which participating employees can elect to have up to 20% of their total compensation withheld and applied to the purchase of common shares of the Company at the end of the period. Unless otherwise determined by the compensation committee before an offering period commences, (1) the purchase price will be 85% of the fair market value of the common shares at the beginning of the offering period; and (2) the maximum number of common shares that may be purchased by an employee in any offering period is 3,000 shares. In addition, applicable Code limitations specify, in general, that a participant’s right to purchase stock under the ESPP cannot accumulate at a rate in excess of \$25,000 (based on the value at the beginning of the applicable offering periods) per calendar year. The Company recorded \$1.6 million of share-based compensation expense, net of a tax benefit of \$0.1 million, related to the ESPP for 2014, compared to \$1.4 million, net of a tax benefit of \$0.1 million, for 2013 and \$1.1 million, net of a tax benefit of \$0.1 million, for 2012.

In June 2002, following shareholder approval, the Company adopted the 2002 Long Term Incentive and Share Award Plan (the “2002 Plan”). An aggregate of 9,497,490 Common Shares has been reserved for issuance under the 2002 Plan. The 2002 Plan expired in January 2012.

With respect to certain subsidiaries, the Company may withhold, or require a participant to remit to the Company, an amount sufficient to satisfy any federal, state or local withholding tax requirements associated with awards under the Company’s share award plans. This includes the authority to withhold or receive shares or other property and to make cash payments in respect thereof.

**Stock Options and Stock Appreciation Rights**

The Company generally issues stock options and SARs to eligible employees, with exercise prices equal to the fair market values of the Company’s Common Shares on the grant dates. Such grants generally vest over a three year period with one-third vesting on the first, second and third anniversaries of the grant date. In addition, in November 2012 the Company issued off-cycle stock options and SARs to certain employees, which will cliff vest on the fifth anniversary of the grant date. Option awards and SARs have a 10 year contractual life. Refer to Note 3(m) for details related to the Company’s accounting for stock options and SARs.

The Company recorded after-tax share-based compensation expense of \$12.5 million related to stock options and SARs for 2014, net of a tax benefit of \$2.1 million, compared to \$10.6 million for 2013, net of a tax benefit of \$2.0 million, and \$8.5 million for 2012, net of a tax benefit of \$1.8 million. As of December 31, 2014, there was

approximately \$14.8 million of unrecognized compensation cost related to nonvested stock options and SARs. Such cost is expected to be recognized over a weighted average period of 1.8 years.

For purposes of determining estimated market value, the Company has computed the estimated market values of share-based compensation related to stock options and SARs using the Black-Scholes option valuation model and has

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applied the assumptions set forth in the following table. As described above, stock options and SARs generally vest over a three year period with one-third vesting on the first, second and third anniversaries of the grant date. The expected life assumption (i.e., the estimated period of time between the date an option or SAR is granted and the date the option or SAR is exercised) was based on an expected term analysis which incorporated the Company's historical exercise experience. The Company based its estimate of expected volatility for stock options and SARs granted during 2014 on daily historical trading data of its common shares from September 20, 2002, the date marking the completion of the Company's transition as a worldwide insurance and reinsurance company. For stock options and SARs granted during 2013 and 2012, the Company based its volatility estimate under the same method used for 2014, using the period from September 20, 2002 through the last day of the applicable period.

	Year Ended December 31,			
	2014	2013	2012	
Dividend yield	0.0	% 0.0	% 0.0	%
Expected volatility	22.8	% 23.6	% 24.3	%
Risk free interest rate	1.9	% 1.0	% 1.0	%
Expected option life	6.0 years	6.0 years	6.25 years	

The Black-Scholes option pricing model requires the input of highly subjective assumptions. Because the Company's employee stock options and SARs have characteristics significantly different from those of traded options, and because changes in the subjective input assumptions can materially affect the fair value estimate, in management's opinion, the existing models may not provide a reliable single measure of the fair value of its employee stock options and SARs. In addition, management will continue to assess the assumptions and methodologies used to calculate estimated fair value of share-based compensation. Circumstances may change and additional data may become available over time, which could result in changes to these assumptions and methodologies, and which could materially impact the Company's fair value determination.

A summary of stock option and SAR activity under the Company's Long Term Incentive and Share Award Plans during 2014 is presented below:

	Year Ended December 31, 2014	
	Number of Options / SARs	Weighted Average Exercise Price
Outstanding, beginning of year	8,338,480	\$28.82
Granted	1,078,036	\$56.71
Exercised	(1,542,828	) \$18.62
Forfeited or expired	(69,655	) \$46.91
Outstanding, end of year	7,804,033	\$34.52
Exercisable, end of year	5,558,439	\$28.91

The weighted average grant-date fair value of stock options and SARs granted during 2014, 2013 and 2012 was \$14.77, \$12.96 and \$10.61, respectively. The aggregate intrinsic value of stock options and SARs exercised during 2014, 2013 and 2012 was approximately \$58.4 million, \$21.7 million, and \$64.0 million, respectively and represents the difference between the exercise price of the stock options and SARs and the closing market price of the Company's common shares on the exercise dates. Shares issued upon exercise of stock options and SARs were from the Company's authorized but unissued share capital pool.

The aggregate intrinsic value of the Company's outstanding and exercisable stock options and SARs at December 31, 2014 was \$191.8 million and \$167.8 million, respectively. The weighted average remaining contractual life of the Company's outstanding and exercisable stock options and SARs at December 31, 2014 was 5.7 years and 4.6 years, respectively. During 2014, the Company received proceeds of \$11.0 million from the exercise of stock options and recognized a tax benefit of \$8.9 million from the exercise of stock options and SARs.

Restricted Common Shares and Restricted Units



The Company also issues restricted share and unit awards to eligible employees and directors, for which the fair value is equal to the fair market values of the Company's Common Shares on the grant dates. Restricted share and unit awards generally vest over a three year period with one-third vesting on the first, second and third anniversaries of the grant date.

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In addition, in November 2012 the Company issued off-cycle restricted share and unit awards to certain employees, which will cliff vest on the fifth anniversary of the grant date. Refer to Note 3(m) for details related to the Company's accounting for restricted share and unit awards.

The Company recorded \$30.0 million of share-based compensation expense, net of a tax benefit of \$8.4 million, related to restricted share and unit awards for 2014, compared to \$27.4 million, net of a tax benefit of \$7.8 million, for 2013 and \$24.6 million, net of a tax benefit of \$6.3 million, for 2012. As of December 31, 2014, there were \$48.5 million and \$8.1 million, respectively, of unrecognized compensation costs related to unvested restricted share and unit awards which are expected to be recognized over a weighted average period of 1.7 years and 1.8 years, respectively.

A summary of unvested restricted share and unit activity under the Company's Long Term Incentive and Share Award Plans for 2014 is presented below:

	Year Ended December 31, 2014	
	Restricted Common Shares	Restricted Unit Awards
Unvested Shares:		
Unvested balance, beginning of year	1,943,125	308,322
Granted	660,043	107,426
Vested	(591,576	) (88,210
Forfeited	(41,750	) (22,405
Unvested balance, end of year	1,969,842	305,133
Weighted Average Grant Date Fair Value:		
Unvested balance, beginning of year	\$43.55	\$43.32
Granted	\$56.94	\$57.18
Vested	\$41.89	\$41.86
Forfeited	\$46.54	\$45.07
Unvested balance, end of year	\$48.47	\$48.49

During 2014, 2013 and 2012, the Company granted an aggregate of 767,469, 590,118 and 1,819,657 restricted share and restricted unit awards, respectively, with weighted average grant date fair values of \$56.97, \$53.21 and \$40.75, respectively. During 2014, 2013 and 2012, the aggregate fair value of restricted shares and units that vested was \$38.6 million, \$41.0 million and \$33.2 million, respectively. The aggregate intrinsic value of restricted units outstanding at December 31, 2014 was \$26.4 million, and the aggregate intrinsic value of restricted units vested and deferred was \$8.4 million.

The issuance of share-based awards and amortization thereon has no effect on the Company's consolidated shareholders' equity.

#### 21. Retirement Plans

For purposes of providing employees with retirement benefits, the Company maintains defined contribution retirement plans. Contributions are based on the participants' eligible compensation. For 2014, 2013 and 2012, the Company expensed \$26.8 million, \$21.5 million and \$19.3 million, respectively, related to these retirement plans.

#### 22. Legal Proceedings

The Company, in common with the insurance industry in general, is subject to litigation and arbitration in the normal course of its business. As of December 31, 2014, the Company was not a party to any litigation or arbitration which is expected by management to have a material adverse effect on the Company's results of operations and financial condition and liquidity.



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## 23. Statutory Information

The Company's insurance and reinsurance subsidiaries are subject to insurance and/or reinsurance laws and regulations in the jurisdictions in which they operate. These regulations include certain restrictions on the amount of dividends or other distributions available to shareholders without prior approval of the insurance regulatory authorities. The actual and required statutory capital and surplus for the Company's principal operating subsidiaries at December 31, 2014 and 2013 was as follows:

	December 31, 2014		December 31, 2013	
	Actual (1)	Required (1)	Actual (1)	Required (1)
Statutory capital and surplus (1):				
Bermuda	\$6,447,803	\$2,209,757	\$5,416,948	\$2,077,442
Ireland	553,561	463,877	533,283	458,666
United States	1,454,282	467,797	1,013,228	335,442
United Kingdom	384,525	307,596	392,734	353,330
Canada	79,123	58,837	77,877	74,951

(1) Such amounts include ownership interests in affiliated insurance and reinsurance subsidiaries.

The statutory net income (loss) for the Company's principal operating subsidiaries for 2014, 2013 and 2012 was as follows:

	Year Ended December 31,		
	2014	2013	2012
Statutory net income (loss):			
Bermuda	\$692,676	\$719,267	\$631,483
Ireland	43,197	(24,410)	(1,940)
United States	46,110	62,605	(21,517)
United Kingdom	13,016	(11,353)	(4,449)
Canada	1,517	(36,203)	—

Statutory accounting differs from U.S. GAAP in the reporting of certain items such as acquisition costs, deferred income taxes and investments.

## Bermuda

Under The Insurance Act 1978, as amended, and related regulations of Bermuda (the "Insurance Act"), Arch Re Bermuda, the Company's Bermuda reinsurance and insurance subsidiary, is registered as a Class 4 insurer and long-term insurer and is required to annually prepare and file statutory financial statements and a statutory financial return with the Bermuda Monetary Authority ("BMA"). The Insurance Act also requires Arch Re Bermuda to maintain minimum share capital and must ensure that the value of its general business assets exceeds the amount of its general business liabilities by an amount greater than the prescribed minimum solvency margins and enhanced capital requirement pertaining to its general business. At December 31, 2014, all such requirements were met.

Arch Re Bermuda is also required to file a regulatory risk based capital model that measures risks and determines enhanced capital requirements and a target capital level. In addition, all Class 4 Bermuda insurers must prepare and file with the BMA audited GAAP basis annual financial statements, which must be made publicly available.

Declarations of dividends from retained earnings and distributions from additional paid-in-capital are subject to these requirements being met. For all applicable periods presented herein, Arch Re Bermuda satisfied these requirements. The Bermuda Companies Act 1981 (the "Companies Act") limits Arch Re Bermuda's ability to pay dividends and distributions to shareholders if there are reasonable grounds for believing that: (a) Arch Re Bermuda is, or would after the payment be, unable to pay its liabilities as they become due; or (b) the realizable value of Arch Re Bermuda's assets would thereby be less than the aggregate of its liabilities and its issued share capital and share premium accounts. Under the Insurance Act, Arch Re Bermuda is restricted with respect to the payment of dividends. Arch Re Bermuda is prohibited from declaring or paying in any financial year dividends of more than 25% of its total statutory

capital and surplus (as shown on its previous financial year's statutory balance sheet) unless it files, at least seven days before payment of such

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dividends, with the Bermuda Monetary Authority an affidavit stating that it will continue to meet the required margins. In addition, Arch Re Bermuda is prohibited, without prior approval of the Bermuda Monetary Authority, from reducing by 15% or more its total statutory capital, as set out in its previous year's statutory financial statements. Accordingly, Arch Re Bermuda can pay approximately \$1.36 billion to ACGL during 2015 without providing an affidavit to the BMA.

Watford Re is registered as a Class 4 insurer and is required to annually prepare and file statutory financial statements and a statutory financial return with the BMA. The Insurance Act also requires Watford Re to maintain minimum share capital and must ensure that the value of its general business assets exceeds the amount of its general business liabilities by an amount greater than the prescribed minimum solvency margins and enhanced capital requirement pertaining to its general business. At December 31, 2014, all such requirements were met.

Ireland

Arch Re Europe was licensed and authorized by the Central Bank of Ireland ("CBOI") as a non-life reinsurer in October 2008 and as a life reinsurer in November 2009 while Arch MI Europe was authorized as a non-life insurer in Ireland in December 2011. Irish authorized reinsurers and insurers, such as Arch Re Europe and Arch MI Europe, are also subject to the general body of Irish laws and regulations including the provisions of the Companies Acts 1963-2013. Arch Re Europe and Arch MI Europe must file and submit their annual audited financial statements in accordance with Irish generally accepted accounting principles and related reports to the Registrar of Companies ("Registrar") under the Companies Acts 1963-2013 together with an annual return of certain core corporate information. Changes to core corporate information during the year must also be notified to the Registrar. These requirements are in addition to the regulatory returns required to be filed annually with the CBOI. Arch Re Europe and Arch MI Europe are required to maintain reserves, particularly in respect of underwriting liabilities and a solvency margin as provided for in the European Communities (Reinsurance) Regulations, 2006, related guidance and the European Communities Insurance Accounts Regulations, 1996. Assets constituting statutory reserves must comply with certain principles including obligations to secure sufficiency, liquidity, security, quality, profitability and currency matching of investments. Statutory reserves must be actuarially certified annually.

Under Irish company law, Arch Re Europe and Arch MI Europe are permitted to make distributions only out of profits available for distribution. A company's profits available for distribution are its accumulated, realized profits, so far as not previously utilized by distribution or capitalization, less its accumulated, realized losses, so far as not previously written off in a reduction or reorganization of capital duly made. Further, the CBOI has powers to intervene if a dividend payment were to lead to a breach of regulatory capital requirements. Dividends or distributions, if any, made by Arch Re Europe would result in an increase in available capital at Arch Re Bermuda.

United States

The Company's U.S. insurance and reinsurance subsidiaries file financial statements prepared in accordance with statutory accounting practices prescribed or permitted by insurance regulators. Statutory net income and statutory surplus, as reported to the insurance regulatory authorities, differ in certain respects from the amounts prepared in accordance with GAAP. The main differences between statutory net income and GAAP net income relate to deferred acquisition costs and deferred income taxes. In addition to deferred acquisition costs and deferred income tax assets, other differences between statutory surplus and GAAP shareholder's equity are unrealized appreciation or decline in value of investments and non-admitted assets.

The Company's U.S. insurance and reinsurance subsidiaries are subject to insurance laws and regulations in the jurisdictions in which they operate. The ability of the Company's regulated insurance subsidiaries to pay dividends or make distributions is dependent on their ability to meet applicable regulatory standards. These regulations include restrictions that limit the amount of dividends or other distributions, such as loans or cash advances, available to shareholders without prior approval of the insurance regulatory authorities. Dividends or distributions, if any, made by Arch Re U.S. would result in an increase in available capital at Arch-U.S., the Company's U.S. holding company. Arch Re U.S. can declare a maximum of approximately \$110 million of dividends during 2015 subject to the approval of

the Commissioner of the Delaware Department of Insurance (“Commissioner”). In addition, with respect to dividends in excess of the \$110 million (extraordinary dividend), no payment can be made until (1) 30 days after the Commissioner has received notice of the declaration thereof and has not within such period disapproved such payments; or (2) the Commissioner shall have approved the payment within the 30-day period. Delaware insurance laws also require that the statutory surplus of Arch Re

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U.S. following any dividend or distribution be reasonable in relation to its outstanding liabilities and adequate to its financial needs.

Arch MI U.S. is subject to detailed regulation both by its domiciliary and primary regulator, the Wisconsin Office of the Commissioner of Insurance, and by state insurance departments in each state in which it is licensed. In addition, Arch MI U.S. is currently approved by the GSEs as an eligible mortgage insurer. In addition to existing eligibility requirements applicable to all eligible mortgage insurers, the GSEs imposed conditions in connection with their approvals of Arch MI U.S. as a qualified mortgage insurer. These conditions require, among other things, that Arch MI U.S.: (i) maintain, through December 31, 2016, minimum capital funding of \$400 million which may consist of statutory capital (policyholders' surplus plus contingency reserves), dedicated reinsurance trust assets for any primary business reinsured and a value for purchased technology assets; (ii) maintain minimum statutory capital (defined as policyholders' surplus plus contingency reserves) of no less than \$260 million; (iii) maintain a risk-to-capital ratio of no greater than 18 to 1; and (iv) refrain from paying dividends to affiliates for three years commencing February 2014.

United Kingdom

The Company's European insurance operations are conducted on two platforms: Arch Insurance Company Europe and Arch Syndicate 2012 (collectively, the insurance operations are referred to as "Arch Insurance Europe"). The Financial Services Authority (the "FSA"), which on April 1, 2013 was replaced by the Prudential Regulatory Authority ("PRA") and the Financial Conduct Authority ("FCA"), regulated insurance and reinsurance companies and firms carrying on insurance mediation activities operating in the U.K. Arch Insurance Company Europe was licensed and authorized by the FSA to underwrite all classes of general insurance in the U.K. in May 2004. In 2009, AUAL was licensed and authorized by the FSA and the Lloyd's Franchise Board. AUAL holds the relevant permissions for the classes of insurance business which are underwritten in the U.K. by Arch Syndicate 2012. Arch Syndicate 2012 has one member, Arch Syndicate Investments Ltd. Arch Risk Partners was licensed and authorized by the FSA in February 2012 to conduct insurance mediation activities. All U.K. companies are also subject to a range of statutory provisions, including the laws and regulations of the Companies Acts 2006 (as amended) (the "U.K. Companies Acts").

Like all U.K. companies, Arch Insurance Europe must file and submit their annual audited financial statements in accordance with International Financial Reporting Standards and related reports to the Registrar of Companies under the U.K. Companies Acts together with an annual return of certain core corporate information and changes from the prior year. This requirement is in addition to the regulatory returns required to be filed annually with the FSA (now the PRA or the FCA, as applicable) for Arch Insurance Company Europe, AUAL and Arch Risk Partners and, in the case of AUAL and ASIL, Lloyd's.

Arch Insurance Company Europe, AUAL (on behalf of itself, Arch Syndicate 2012 and ASIL) and Arch Risk Partners were each required to demonstrate to the FSA that each had adequate financial assets to meet the financial resources requirement for its category. However, since the FSA split into the PRA and FCA, Arch Insurance Company Europe and AUAL (on behalf of itself, Arch Syndicate 2012 and ASIL) are now each required to demonstrate the adequacy of its financial assets to the PRA, while Arch Risk Partners is required to demonstrate the adequacy of its financial assets to the FCA. On a periodic basis, Arch Insurance Europe was required to provide the FSA and Lloyd's with its own risk-based assessment of its capital needs, taking into account comprehensive risk factors, including market, credit, operational, liquidity and group risks to generate a revised calculation of its expected liabilities which, in turn, enabled the FSA and Lloyd's to provide individual capital guidance and requirements to Arch Insurance Europe. Following the split of the FSA into the PRA and FCA, similar requirements from the PRA have taken effect. Arch Insurance Europe's surplus is above the risk-based capital threshold allowed by the FSA's (now PRA's) individual capital assessment of Arch Insurance Europe. The FSA required, and now the PRA requires, that Arch Insurance Europe maintain a margin of solvency calculation based on the classes of business for which it is authorized and within its premium income projections applied to its worldwide general business.

Under U.K. law, all U.K. companies are restricted from declaring a dividend to their shareholders unless they have "profits available for distribution." The calculation as to whether a company has sufficient profits is based on its



accumulated realized profits minus its accumulated realized losses. U.K. insurance regulatory laws do not prohibit the payment of dividends, but the FSA required, and now the PRA or FCA, as applicable, requires that insurance companies and insurance intermediaries maintain certain solvency margins and may restrict the payment of a dividend by Arch Insurance Company Europe, AUAL, ASIL or Arch Risk Partners. Dividends or distributions, if any, made by Arch Insurance Europe would result in an increase in available capital at Arch Re Europe, a subsidiary of Arch Re Bermuda.

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## Canada

Arch Insurance Canada, which commenced underwriting on January 1, 2013, and the Canadian branch of Arch Re U.S. (“Arch Re Canada”), which commenced underwriting on January 1, 2015, are subject to federal, as well as provincial and territorial, regulation in Canada. The Office of the Superintendent of Financial Institutions (“OSFI”) is the federal regulatory body that, under the Insurance Companies Act (Canada), regulates federal Canadian and non-Canadian insurance companies operating in Canada. The primary goal of OSFI is to supervise the safety and soundness of insurance companies with the aim of securing the appropriate level of protection of insureds by imposing risk management, solvency and capital requirements on such companies. Arch Insurance Canada and Arch Re Canada are subject to regulation in the provinces and territories in which they underwrite insurance/reinsurance, and the primary goal of insurance/reinsurance regulation at the provincial and territorial levels is to govern the market conduct of insurance/reinsurance companies. Arch Insurance Canada is licensed to carry on insurance business by OSFI and in each province and territory. Arch Re Canada is licensed to carry-on reinsurance business by OSFI and in the province of Ontario.

Under the Insurance Companies Act (Canada), Arch Insurance Canada is required to maintain an adequate amount of capital in Canada, calculated in accordance with a test promulgated by OSFI called the Minimum Capital Test (“MCT”), and Arch Re Canada is required to maintain an adequate margin of assets over liabilities in Canada, calculated in accordance with a test promulgated by OSFI called the Branch Adequacy of Assets Test. Arch Insurance Canada and Arch Re Canada are required to file financial information with OSFI on an ongoing basis, including annual audited financial statements in accordance with IFRS. Dividends or distributions, if any, made by Arch Insurance Canada would result in an increase in available capital at Arch Insurance Company (see “—United States” section).

## 24. Unaudited Condensed Quarterly Financial Information

The following table summarizes the Company’s 2014 and 2013 unaudited condensed quarterly financial information (including the results of the ‘other’ segment):

	Fourth Quarter	Third Quarter	Second Quarter	First Quarter
Year Ended December 31, 2014				
Net premiums written	\$895,481	\$959,539	\$971,928	\$1,064,990
Net premiums earned	923,165	903,651	907,152	859,780
Net investment income	82,496	80,105	72,990	66,994
Net realized gains	10,561	18,515	54,144	19,697
Net impairment losses recognized in earnings	(3,837)	) (8,593)	) (14,749)	) (2,971)
Underwriting income	113,464	101,087	124,091	132,456
Net income	207,134	223,264	211,717	179,145
Preferred dividends	(5,485)	) (5,484)	) (5,485)	) (5,484)
Net income available to Arch common shareholders	209,679	223,191	202,531	177,016
Net income per common share -- basic	\$1.65	\$1.69	\$1.53	\$1.34
Net income per common share -- diluted	\$1.60	\$1.64	\$1.48	\$1.30
Year Ended December 31, 2013				
Net premiums written	\$748,921	\$839,135	\$810,535	\$952,776
Net premiums earned	839,366	795,000	758,816	752,770
Net investment income	67,095	66,083	68,369	65,672
Net realized gains (losses)	9,048	(6,022)	) 12,652	58,340
Net impairment losses recognized in earnings	(88)	) (728)	) (724)	) (2,246)
Underwriting income	128,318	110,992	96,029	116,398
Net income	161,490	114,825	176,940	256,476

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Preferred dividends	(5,485	) (5,484	) (5,485	) (5,484	)
Net income available to Arch common shareholders	156,005	109,341	171,455	250,992	
Net income per common share -- basic	\$1.19	\$0.83	\$1.31	\$1.92	
Net income per common share -- diluted	\$1.14	\$0.80	\$1.26	\$1.85	

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## 25. Guarantor Financial Information

The following tables present condensed consolidating balance sheets at December 31, 2014 and 2013 and condensed consolidating statements of income, comprehensive income and cash flows for 2014, 2013 and 2012 for ACGL, Arch-U.S., a 100% owned subsidiary of ACGL, and ACGL's other subsidiaries.

December 31, 2014

Condensed Consolidating Balance Sheet	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
<b>Assets</b>					
Total investments	\$107	\$62,867	\$15,268,275	\$—	\$15,331,249
Cash	3,218	2,787	479,697	—	485,702
Investments in subsidiaries	6,536,644	1,685,185	—	(8,221,829 )	—
Due from subsidiaries and affiliates	48	7,517	370,429	(377,994 )	—
Premiums receivable	—	—	1,331,511	(382,816 )	948,695
Reinsurance recoverable on unpaid and paid losses and loss adjustment expenses	—	—	5,584,973	(3,772,128 )	1,812,845
Contractholder receivables	—	—	1,309,192	—	1,309,192
Prepaid reinsurance premiums	—	—	1,373,008	(995,930 )	377,078
Deferred acquisition costs, net	—	—	414,525	—	414,525
Other assets	7,590	49,576	1,689,670	(416,579 )	1,330,257
Total assets	\$6,547,607	\$1,807,932	\$27,821,280	\$(14,167,276)	\$22,009,543
<b>Liabilities</b>					
Reserve for losses and loss adjustment expenses	\$—	\$—	\$12,784,030	\$(3,747,582 )	\$9,036,448
Unearned premiums	—	—	3,227,508	(995,930 )	2,231,578
Reinsurance balances payable	—	—	589,289	(369,977 )	219,312
Contractholder payables	—	—	1,309,192	—	1,309,192
Deposit accounting liabilities	—	—	587,050	(259,666 )	327,384
Senior notes	300,000	500,000	—	—	800,000
Revolving credit agreement borrowings	100,000	—	—	—	100,000
Due to subsidiaries and affiliates	417	7,505	370,072	(377,994 )	—
Other liabilities	17,137	49,403	994,741	(194,298 )	866,983
Total liabilities	417,554	556,908	19,861,882	(5,945,447 )	14,890,897
Redeemable noncontrolling interests (1)	—	—	219,512	—	219,512
<b>Shareholders' Equity</b>					
Total shareholders' equity available to Arch	6,130,053	1,251,024	6,970,805	(8,221,829 )	6,130,053
Non-redeemable noncontrolling interests (1)	—	—	769,081	—	769,081
Total shareholders' equity	6,130,053	1,251,024	7,739,886	(8,221,829 )	6,899,134
	\$6,547,607	\$1,807,932	\$27,821,280	\$(14,167,276)	\$22,009,543

Total liabilities, noncontrolling interests  
and shareholders' equity  
(1) See Note 4.

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Table of ContentsARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Balance Sheet	December 31, 2013			Consolidating Adjustments and Eliminations	ACGL Consolidated
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries		
<b>Assets</b>					
Total investments	\$2,530	\$408,957	\$13,200,247	\$—	\$13,611,734
Cash	3,223	509	430,325	—	434,057
Investments in subsidiaries	6,046,060	1,258,889	—	(7,304,949 )	—
Due from subsidiaries and affiliates	2,251	—	405,110	(407,361 )	—
Premiums receivable	—	—	1,085,369	(331,445 )	753,924
Reinsurance recoverable on unpaid and paid losses and loss adjustment expenses	—	—	5,645,156	(3,840,826 )	1,804,330
Contractholder receivables	—	—	1,064,246	—	1,064,246
Prepaid reinsurance premiums	—	—	1,109,312	(780,969 )	328,343
Deferred acquisition costs, net	—	—	342,314	—	342,314
Other assets	6,598	60,342	1,714,651	(554,445 )	1,227,146
<b>Total assets</b>	<b>\$6,060,662</b>	<b>\$1,728,697</b>	<b>\$24,996,730</b>	<b>\$(13,219,995)</b>	<b>\$19,566,094</b>
<b>Liabilities</b>					
Reserve for losses and loss adjustment expenses	\$—	\$—	\$12,625,766	\$(3,801,070 )	\$8,824,696
Unearned premiums	—	—	2,677,334	(780,969 )	1,896,365
Reinsurance balances payable	—	—	662,394	(466,227 )	196,167
Contractholder payables	—	—	1,064,246	—	1,064,246
Deposit accounting liabilities	—	—	758,490	(337,193 )	421,297
Senior notes	300,000	500,000	—	—	800,000
Revolving credit agreement borrowings	100,000	—	—	—	100,000
Due to subsidiaries and affiliates	18	10,250	397,093	(407,361 )	—
Other liabilities	13,148	33,206	691,699	(122,226 )	615,827
<b>Total liabilities</b>	<b>413,166</b>	<b>543,456</b>	<b>18,877,022</b>	<b>(5,915,046 )</b>	<b>13,918,598</b>
Redeemable noncontrolling interests	—	—	—	—	—
<b>Shareholders' Equity</b>					
Total shareholders' equity available to Arch	5,647,496	1,185,241	6,119,708	(7,304,949 )	5,647,496
Non-redeemable noncontrolling interests	—	—	—	—	—
<b>Total shareholders' equity</b>	<b>5,647,496</b>	<b>1,185,241</b>	<b>6,119,708</b>	<b>(7,304,949 )</b>	<b>5,647,496</b>
<b>Total liabilities, noncontrolling interests and shareholders' equity</b>	<b>\$6,060,662</b>	<b>\$1,728,697</b>	<b>\$24,996,730</b>	<b>\$(13,219,995)</b>	<b>\$19,566,094</b>



Table of ContentsARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Statement of Income and Comprehensive Income	Year Ended December 31, 2014				
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
<b>Revenues</b>					
Net premiums earned	\$—	\$—	\$3,593,748	\$—	\$3,593,748
Net investment income	—	—	326,831	(24,246 )	302,585
Net realized gains	—	5	102,912	—	102,917
Net impairment losses recognized in earnings	—	—	(30,150 )	—	(30,150 )
Other underwriting income	—	—	10,142	—	10,142
Equity in net income of investment funds accounted for using the equity method	—	—	19,883	—	19,883
Other income (loss)	—	—	(10,252 )	—	(10,252 )
Total revenues	—	5	4,013,114	(24,246 )	3,988,873
<b>Expenses</b>					
Losses and loss adjustment expenses	—	—	1,919,250	—	1,919,250
Acquisition expenses	—	—	657,262	—	657,262
Other operating expenses	46,074	3,387	556,763	—	606,224
Interest expense	23,423	25,817	20,640	(24,246 )	45,634
Net foreign exchange gains	—	—	(53,222 )	(30,522 )	(83,744 )
Total expenses	69,497	29,204	3,100,693	(54,768 )	3,144,626
Income (loss) before income taxes	(69,497 )	(29,199 )	912,421	30,522	844,247
Income tax benefit (expense)	—	10,125	(33,112 )	—	(22,987 )
Income (loss) before equity in net income of subsidiaries	(69,497 )	(19,074 )	879,309	30,522	821,260
Equity in net income of subsidiaries	903,852	53,584	—	(957,436 )	—
Net income	834,355	34,510	879,309	(926,914 )	821,260
Amounts attributable to noncontrolling interests (1)	—	—	13,095	—	13,095
Net income available to Arch	834,355	34,510	892,404	(926,914 )	834,355
Preferred dividends	(21,938 )	—	—	—	(21,938 )
Net income available to Arch common shareholders	\$812,417	\$34,510	\$892,404	\$(926,914 )	\$812,417
Comprehensive income available to Arch	\$888,247	\$33,671	\$976,821	\$(1,010,492 )	\$888,247

(1) See Note 4.



Table of ContentsARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Statement of Income and Comprehensive Income	Year Ended December 31, 2013				
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
<b>Revenues</b>					
Net premiums earned	\$—	\$—	\$3,145,952	\$—	\$3,145,952
Net investment income	—	31	307,449	(40,261 )	267,219
Net realized gains	—	—	74,018	—	74,018
Net impairment losses recognized in earnings	—	—	(3,786 )	—	(3,786 )
Other underwriting income	—	—	7,639	—	7,639
Equity in net income of investment funds accounted for using the equity method	—	—	35,701	—	35,701
Other income (loss)	—	—	(586 )	—	(586 )
Total revenues	—	31	3,566,387	(40,261 )	3,526,157
<b>Expenses</b>					
Losses and loss adjustment expenses	—	—	1,679,424	—	1,679,424
Acquisition expenses	—	—	564,103	—	564,103
Other operating expenses	38,702	2,691	459,337	—	500,730
Interest expense	23,272	1,316	42,733	(40,261 )	27,060
Net foreign exchange losses	—	—	2,145	10,190	12,335
Total expenses	61,974	4,007	2,747,742	(30,071 )	2,783,652
Income (loss) before income taxes	(61,974 )	(3,976 )	818,645	(10,190 )	742,505
Income tax benefit (expense)	—	1,383	(34,157 )	—	(32,774 )
Income (loss) before equity in net income of subsidiaries	(61,974 )	(2,593 )	784,488	(10,190 )	709,731
Equity in net income of subsidiaries	771,705	25,644	—	(797,349 )	—
Net income	709,731	23,051	784,488	(807,539 )	709,731
Amounts attributable to noncontrolling interests	—	—	—	—	—
Net income available to Arch	709,731	23,051	784,488	(807,539 )	709,731
Preferred dividends	(21,938 )	—	—	—	(21,938 )
Net income available to Arch common shareholders	\$687,793	\$23,051	\$784,488	\$(807,539 )	\$687,793
Comprehensive income (loss) available to Arch	\$497,678	\$(28,330 )	\$562,245	\$(533,915 )	\$497,678

Table of ContentsARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Statement of Income and Comprehensive Income	Year Ended December 31, 2012				
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
<b>Revenues</b>					
Net premiums earned	\$—	\$—	\$2,935,140	\$—	\$2,935,140
Net investment income	4	8	321,805	(26,922 )	294,895
Net realized gains	—	—	194,228	—	194,228
Net impairment losses recognized in earnings	—	—	(11,388 )	—	(11,388 )
Other underwriting income	—	—	8,090	—	8,090
Equity in net income of investment funds accounted for using the equity method	—	—	73,510	—	73,510
Other income (loss)	—	—	(12,094 )	—	(12,094 )
<b>Total revenues</b>	<b>4</b>	<b>8</b>	<b>3,509,291</b>	<b>(26,922 )</b>	<b>3,482,381</b>
<b>Expenses</b>					
Losses and loss adjustment expenses	—	—	1,861,277	—	1,861,277
Acquisition expenses	—	—	508,884	—	508,884
Other operating expenses	35,570	1,218	428,565	—	465,353
Interest expense	23,496	—	31,951	(26,922 )	28,525
Net foreign exchange losses	—	—	21,787	7,168	28,955
<b>Total expenses</b>	<b>59,066</b>	<b>1,218</b>	<b>2,852,464</b>	<b>(19,754 )</b>	<b>2,892,994</b>
Income (loss) before income taxes	(59,062 )	(1,210 )	656,827	(7,168 )	589,387
Income tax benefit	—	424	3,586	—	4,010
Income (loss) before equity in net income of subsidiaries	(59,062 )	(786 )	660,413	(7,168 )	593,397
Equity in net income of subsidiaries	652,459	9,738	—	(662,197 )	—
<b>Net income</b>	<b>593,397</b>	<b>8,952</b>	<b>660,413</b>	<b>(669,365 )</b>	<b>593,397</b>
Amounts attributable to noncontrolling interests	—	—	—	—	—
Net income available to Arch	593,397	8,952	660,413	(669,365 )	593,397
Preferred dividends	(25,079 )	—	—	—	(25,079 )
Loss on repurchase of preferred shares	(10,612 )	—	—	—	(10,612 )
<b>Net income available to Arch common shareholders</b>	<b>\$557,706</b>	<b>\$8,952</b>	<b>\$660,413</b>	<b>\$(669,365 )</b>	<b>\$557,706</b>
<b>Comprehensive income available to Arch</b>	<b>\$726,491</b>	<b>\$2,796</b>	<b>\$786,338</b>	<b>\$(789,134 )</b>	<b>\$726,491</b>

Table of ContentsARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Statement of Cash Flows	Year Ended December 31, 2014				
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
Operating Activities					
Net Cash Provided By (Used For) Operating Activities	\$467,091	\$8,142	\$1,077,597	\$(515,700 )	\$1,037,130
Investing Activities					
Purchases of fixed maturity investments	—	(78,509 )	(28,666,770 )	—	(28,745,279 )
Purchases of equity securities	—	—	(520,817 )	—	(520,817 )
Purchases of other investments	—	—	(2,257,481 )	—	(2,257,481 )
Proceeds from the sales of fixed maturity investments	—	16,011	26,807,181	—	26,823,192
Proceeds from the sales of equity securities	—	—	411,362	—	411,362
Proceeds from the sales of other investments	—	—	1,643,000	—	1,643,000
Proceeds from redemptions and maturities of fixed maturity investments	—	—	762,995	—	762,995
Net (purchases) sales of short-term investments	2,423	408,591	166,112	—	577,126
Change in investment of securities lending collateral	—	—	57,470	—	57,470
Contributions to subsidiaries	—	(341,707 )	(128,825 )	470,532	—
Issuance of intercompany loans	—	(7,500 )	(7,500 )	15,000	—
Repayments of intercompany loans	—	—	38,964	(38,964 )	—
Purchase of business, net of cash acquired	—	—	(237,106 )	—	(237,106 )
Purchases of furniture, equipment and other assets	(271 )	—	(19,612 )	—	(19,883 )
Net Cash Provided By (Used For) Investing Activities	2,152	(3,114 )	(1,951,027 )	446,568	(1,505,421 )
Financing Activities					
Purchases of common shares under share repurchase program	(454,137 )	—	—	—	(454,137 )
Proceeds from common shares issued, net	6,827	—	470,532	(470,532 )	6,827
Proceeds from intercompany loans	—	7,500	7,500	(15,000 )	—
Repayments of intercompany loans	—	(10,250 )	(28,714 )	38,964	—
Change in securities lending collateral	—	—	(57,470 )	—	(57,470 )
Third party investment in non-redeemable noncontrolling interests (1)	—	—	796,903	—	796,903
Third party investment in redeemable noncontrolling interests (1)	—	—	219,233	—	219,233

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Dividends paid to redeemable noncontrolling interests (1)	—	—	(14,448	) —	(14,448	)
Dividends paid to parent (2)	—	—	(515,700	) 515,700	—	
Other	—	—	64,973	—	64,973	
Preferred dividends paid	(21,938	) —	—	—	(21,938	)
Net Cash Provided By (Used For) Financing Activities	(469,248	) (2,750	) 942,809	69,132	539,943	
Effects of exchange rates changes on foreign currency cash	—	—	(20,007	) —	(20,007	)
Increase (decrease) in cash	(5	) 2,278	49,372	—	51,645	
Cash beginning of year	3,223	509	430,325	—	434,057	
Cash end of year	\$3,218	\$2,787	\$479,697	\$—	\$485,702	

(1) See Note 4.

(2) Included in net cash provided by (used for) operating activities in the ACGL (Parent Guarantor) column.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Statement of Cash Flows	Year Ended December 31, 2013				
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
Operating Activities					
Net Cash Provided By (Used For) Operating Activities	\$68,562	\$(6,569 )	\$908,375	\$(119,500 )	\$850,868
Investing Activities					
Purchases of fixed maturity investments	—	—	(18,174,988 )	—	(18,174,988 )
Purchases of equity securities	—	—	(535,857 )	—	(535,857 )
Purchases of other investments	—	—	(1,326,729 )	—	(1,326,729 )
Proceeds from the sales of fixed maturity investments	—	—	17,196,614	—	17,196,614
Proceeds from the sales of equity securities	—	—	462,787	—	462,787
Proceeds from the sales of other investments	—	—	1,162,707	—	1,162,707
Proceeds from redemptions and maturities of fixed maturity investments	—	—	731,708	—	731,708
Net (purchases) sales of short-term investments	5,799	(400,162 )	(356,250 )	—	(750,613 )
Change in investment of securities lending collateral	—	—	(55,643 )	—	(55,643 )
Contributions to subsidiaries	(160 )	(97,850 )	(20,250 )	118,260	—
Issuance of intercompany loans	—	—	(10,250 )	10,250	—
Purchases of furniture, equipment and other assets	(712 )	—	(16,787 )	—	(17,499 )
Net Cash Provided By (Used For) Investing Activities	4,927	(498,012 )	(942,938 )	128,510	(1,307,513 )
Financing Activities					
Purchases of common shares under share repurchase program	(57,796 )	—	—	—	(57,796 )
Proceeds from common shares issued, net	3,051	—	118,260	(118,260 )	3,051
Proceeds from intercompany loans	—	10,250	—	(10,250 )	—
Proceeds from borrowings	—	494,228	—	—	494,228
Change in securities lending collateral	—	—	55,643	—	55,643
Dividends paid to parent (1)	—	—	(119,500 )	119,500	—
Other	—	—	50,830	—	50,830
Preferred dividends paid	(21,938 )	—	—	—	(21,938 )
Net Cash Provided By (Used For) Financing Activities	(76,683 )	504,478	105,233	(9,010 )	524,018
Effects of exchange rates changes on foreign currency cash	—	—	(4,357 )	—	(4,357 )
Increase (decrease) in cash	(3,194 )	(103 )	66,313	—	63,016
Cash beginning of year	6,417	612	364,012	—	371,041

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Cash end of year	\$3,223	\$509	\$430,325	\$—	\$434,057
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(1) Included in net cash provided by (used for) operating activities in the ACGL (Parent Guarantor) column.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Condensed Consolidating Statement of Cash Flows	Year Ended December 31, 2012				
	ACGL (Parent Guarantor)	Arch-U.S. (Subsidiary Issuer)	Other ACGL Subsidiaries	Consolidating Adjustments and Eliminations	ACGL Consolidated
Operating Activities					
Net Cash Provided By (Used For) Operating Activities	\$209,500	\$(8,086 )	\$978,679	\$(258,490 )	\$921,603
Investing Activities					
Purchases of fixed maturity investments	—	—	(17,568,592 )	—	(17,568,592 )
Purchases of equity securities	—	—	(268,999 )	—	(268,999 )
Purchases of other investments	—	—	(1,000,049 )	—	(1,000,049 )
Proceeds from the sales of fixed maturity investments	—	—	16,366,306	—	16,366,306
Proceeds from the sales of equity securities	—	—	313,617	—	313,617
Proceeds from the sales of other investments	—	—	443,630	—	443,630
Proceeds from redemptions and maturities of fixed maturity investments	—	—	1,115,594	—	1,115,594
Net (purchases) sales of short-term investments	(5,094 )	1,986	189,027	—	185,919
Change in investment of securities lending collateral	—	—	6,190	—	6,190
Contributions to subsidiaries	—	—	(38,576 )	38,576	—
Purchase of business, net of cash acquired	—	—	28,948	—	28,948
Purchases of furniture, equipment and other assets	(65 )	—	(18,467 )	—	(18,532 )
Net Cash Provided By (Used For) Investing Activities	(5,159 )	1,986	(431,371 )	38,576	(395,968 )
Financing Activities					
Proceeds from issuance of Series C preferred shares issued, net	315,763	—	—	—	315,763
Repurchase of Series A and B preferred shares	(325,000 )	—	—	—	(325,000 )
Purchases of common shares under share repurchase program	(172,056 )	—	—	—	(172,056 )
Proceeds from common shares issued, net	7,033	—	38,576	(38,576 )	7,033
Repayments of borrowings	—	—	(310,868 )	—	(310,868 )
Change in securities lending collateral	—	—	(6,190 )	—	(6,190 )
Dividends paid to parent (1)	—	—	(258,490 )	258,490	—
Other	—	—	6,664	—	6,664
Preferred dividends paid	(28,381 )	—	—	—	(28,381 )
Net Cash Provided By (Used For) Financing Activities	(202,641 )	—	(530,308 )	219,914	(513,035 )

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Effects of exchange rates changes on foreign currency cash	—	—	6,742	—	6,742
Increase (decrease) in cash	1,700	(6,100	) 23,742	—	19,342
Cash beginning of year	4,717	6,712	340,270	—	351,699
Cash end of year	\$6,417	\$612	\$364,012	\$—	\$371,041

(1) Included in net cash provided by (used for) operating activities in the ACGL (Parent Guarantor) column.

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ITEM CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND  
9. FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

In connection with the filing of this Form 10-K, our management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation, as of December 31, 2014, for the purposes set forth in the applicable rules under the Securities and Exchange Act of 1934, as amended (the "Exchange Act"). Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the disclosure controls and procedures are effective. We continue to enhance our operating procedures and internal controls (including information technology initiatives and controls over financial reporting) to effectively support our business and our regulatory and reporting requirements. Our management does not expect that our disclosure controls or our internal controls will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. As a result of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons or by collusion of two or more people. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions; over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. As a result of the inherent limitations in a cost-effective control system, misstatement due to error or fraud may occur and not be detected. Accordingly, our disclosure controls and procedures are designed to provide reasonable, not absolute, assurance that the disclosure controls and procedures are met.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. Our management assessed the effectiveness of our internal control over financial reporting as of December 31, 2014. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations (COSO) of the Treadway Commission in Internal Control-Integrated Framework (2013).

Based on our assessment, management determined that, as of December 31, 2014, our internal control over financial reporting was effective. The effectiveness of our internal control over financial reporting as of December 31, 2014 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report included in Item 8.

Changes in Internal Control Over Financial Reporting

There have been no changes in internal control over financial reporting that occurred in connection with our evaluation required pursuant to Rules 13a-15 and 15d-15 under the Exchange Act during the fiscal quarter ended December 31, 2014 that have materially affected, or are reasonably likely to materially affect, internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None.

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**PART III**

**ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE**

The information required by this item is incorporated by reference from the information to be included in our definitive proxy statement (“Proxy Statement”) for our annual meeting of shareholders to be held in 2015, which we intend to file with the SEC pursuant to Regulation 14A before April 30, 2015. Copies of our code of ethics applicable to our chief executive officer, chief financial officer and principal accounting officer or controller are available free of charge to investors upon written request addressed to the attention of ACGL’s corporate secretary, Waterloo House, 100 Pitts Bay Road, Pembroke HM 08, Bermuda. In addition, our code of ethics and certain other basic corporate documents, including the charters of our audit committee, compensation committee and nominating committee are posted on our website. If any substantive amendments are made to the code of ethics or if there is a grant of a waiver, including any implicit waiver, we will disclose the nature of such amendment or waiver on our website or in a report on Form 8-K, to the extent required by applicable law or the rules and regulations of any exchange applicable to us. Our website address is intended to be an inactive, textual reference only and none of the material on our website is incorporated by reference into this report.

**ITEM 11. EXECUTIVE COMPENSATION**

The information required by this item is incorporated by reference from the information to be included in the Proxy Statement which we intend to file pursuant to Regulation 14A with the SEC before April 30, 2015, which Proxy Statement is incorporated by reference.

**ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS**

The information required by this item is incorporated by reference from the information to be included in the Proxy Statement which we intend to file pursuant to Regulation 14A with the SEC before April 30, 2015, which Proxy Statement is incorporated by reference.

**ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE**

The information required by this item is incorporated by reference from the information to be included in the Proxy Statement which we intend to file pursuant to Regulation 14A with the SEC before April 30, 2015, which Proxy Statement is incorporated by reference.

**ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES**

The information required by this item is incorporated by reference from the information to be included in our Proxy Statement which we intend to file pursuant to Regulation 14A with the SEC before April 30, 2015, which Proxy Statement is incorporated by reference.

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## PART IV

## ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

## (a) Financial Statements, Financial Statement Schedules and Exhibits.

## 1. Financial Statements

Included in Part II – see Item 8 of this report.

## 2. Financial Statement Schedules

Page No.

## III. Supplementary Insurance Information

For the years ended December 31, 2014, 2013 and 2012

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## IV. Reinsurance

For the years ended December 31, 2014, 2013 and 2012

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## VI. Supplementary Information for Property and Casualty Insurance Underwriters

For the years ended December 31, 2014, 2013 and 2012

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Schedules other than those listed above are omitted for the reason that they are not applicable or the information is provided in Item 8 of this report.

## 3. Exhibits

Exhibit  
Number

Description

3.1	Memorandum of Association of ACGL(b)
3.2	Bye-Laws of ACGL(x)
3.3	ACGL Certificate of Deposit of Memorandum of Increase of Share Capital(x)
4.1	Certificate of Designations of Series C Non-Cumulative Preferred Shares(aa)
4.2.1	Specimen Common Share Certificate(c)
4.2.2	Specimen Series C Non-Cumulative Preferred Share Certificate(aa)
4.3	Indenture and First Supplemental Indenture, dated as of May 4, 2004, between ACGL and JPMorgan Chase Bank, N.A. (formerly JPMorgan Chase Bank) (“JPMCB”)(h)
4.3	Indenture and First Supplemental Indenture, dated as of December 13, 2013, between Arch Capital Group (U.S.) Inc. (“Arch U.S.”), ACGL and The Bank of New York Mellon, as trustee (jj)
10.1.1	ACGL 2002 Long Term Incentive and Share Award Plan (“2002 Plan”)(e)†
10.1.2	First Amendment to the 2002 Plan(f)†
10.1.3	Second Amendment to the 2002 Plan(t)†
10.2	Second Amended and Restated ACGL Incentive Compensation Plan(t)†
10.3	ACGL 2007 Long Term Incentive and Share Award Plan(o)†
10.4.1	ACGL 2012 Long Term Incentive and Share Award Plan(z)†
10.4.2	ACGL 2007 Employee Share Purchase Plan (“2007 ESPP”)(o)†
10.4.3	Amendment to ACGL 2007 ESPP, dated as of November 7, 2007(p)†
10.5.1	Restricted Share Unit Agreement-Constantine Iordanou-February 20, 2003 grant (“February RSU Agreement”)(g), First Amendment to February RSU Agreement-December 9, 2008 grant(t) and Second Amendment to February RSU Agreement-July 9, 2009 grant(u)†
10.5.2	Restricted Share Unit Agreement with ACGL-Mark D. Lyons-May 9, 2008 grant(s), May 6, 2009 grant(v), May 5, 2010 grant(w), May 6, 2011 grant(y) and May 9, 2012 grant (dd)†
10.5.3	Restricted Share Unit Agreement with ACGL - David McElroy - September 6, 2012 grant(hh) and May 9, 2013 grant(ii)†

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- 10.5.4 Restricted Share Agreement with ACGL-Mark D. Lyons-September 6, 2012 grant(hh)†
- 10.5.5 Restricted Share Agreements with ACGL substantially in the form signed by each of Constantine Iordanou, Louis T. Petrillo, W. Preston Hutchings and Marc Grandisson-November 12, 2012 grants(hh)†
- 10.5.6 Restricted Share Agreements with ACGL substantially in the form signed by each of Constantine Iordanou, Louis T. Petrillo, W. Preston Hutchings, David H. McElroy and Marc Grandisson-May 9, 2012 grant(dd)†
- 10.5.7 Restricted Share Agreements with ACGL substantially in the form signed by each of Constantine Iordanou, Louis T. Petrillo, W. Preston Hutchings, Mark D. Lyons and Marc Grandisson-May 9, 2013 grants (ii)†
- 10.5.8 Restricted Share Agreement with ACGL. substantially in the form signed by the Non-Employee Directors of Arch Capital Group Ltd. for May 9, 2014 grants (ll)†
- 10.5.9 Restricted Share Agreement with ACGL substantially in the form signed by each of Constantine Iordanou, Mark D. Lyons, Marc Grandisson, W. Preston Hutchings and Louis T. Petrillo for May 13, 2014 grants (ll)†
- 10.5.10 Restricted Share Unit Agreement, dated as of May 13, 2014, between Arch Capital Group Ltd. and David McElroy (ll)†
- 10.5.11 Restricted Share Agreement with Arch Capital Group Ltd. substantially in the form signed by each of Louis J. Paglia and Eugene S. Sunshine for July 14, 2014 grants (nn)†
- 10.6.1 Stock Option Agreement with ACGL-Marc Grandisson- November 15, 2005 grant(m)†
- 10.6.2 Stock Option Agreements with ACGL and Constantine Iordanou, John D. Vollaro and Marc Grandisson-February 23, 2006 grants(n)†
- 10.6.3 Stock Option Agreement with ACGL and W. Preston Hutchings-February 23, 2006 grant(n)†
- 10.7.1 Share Appreciation Right Agreement with ACGL substantially in the form signed by Louis T. Petrillo and W. Preston Hutchings-May 11, 2007 grants(p)†
- 10.7.2 Share Appreciation Right Agreement with ACGL substantially in the form signed by Constantine Iordanou, John D. Vollaro and Marc Grandisson-May 11, 2007 grants(p)†
- 10.7.3 Share Appreciation Right Agreement with ACGL substantially in the form signed by each of Constantine Iordanou, John D. Vollaro, Marc Grandisson, W. Preston Hutchings, Mark D. Lyons and Louis T. Petrillo-May 9, 2008 grants(s)†
- 10.7.4 Share Appreciation Right Agreement with ACGL substantially in the form signed by each of Constantine Iordanou, Marc Grandisson, W. Preston Hutchings, Mark D. Lyons, John D. Vollaro and Louis T. Petrillo-May 6, 2009 grants(v)†
- 10.7.5 Share Appreciation Right Agreement with ACGL substantially in the form signed by each of Constantine Iordanou, Marc Grandisson, W. Preston Hutchings, Mark D. Lyons and Louis T. Petrillo-May 5, 2010 grants(w) May 6, 2011 grants(y), May 9, 2012 grants(dd) and May 9, 2013 grants (includes David H. McElroy) (ii)†
- 10.7.6 Share Appreciation Right Agreement with ACGL-Constantine Iordanou-February 25, 2010 grant(dd),February 29, 2012 grant (dd) and September 6, 2012 grants (hh)†
- 10.7.7 Share Appreciation Right Agreement with ACGL-David H. McElroy-June 8, 2009 grant (ff) and September 6, 2012 grants (hh)†
- 10.7.8 Share Appreciation Right Agreement with ACGL-Mark D. Lyons-September 6, 2012 grant (hh)†
- 10.7.9 Share Appreciation Right Agreement with ACGL substantially in the form signed by each of Constantine Iordanou, Marc Grandisson, W. Preston Hutchings and Louis T. Petrillo-November 12, 2012 grants (hh)†
- 10.7.10 Share Appreciation Right Agreement with Arch Capital Group Ltd. substantially in the form signed by each of Constantine Iordanou, Mark D. Lyons, Marc Grandisson, W. Preston Hutchings, David McElroy and Louis T. Petrillo for May 13, 2014 grants (ll)†
- 10.7.11 Share Appreciation Right Agreement, dated as of February 28, 2014 between Arch Capital Group Ltd. and Mark D. Lyons (ll)†
- 10.7.12

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- Share Appreciation Right Agreement, dated as of February 28, 2014 between Arch Capital Group Ltd. and Constantine Iordanou (ll)†
- 10.8 Employment and Change in Control Agreement, dated as of May 5, 2000, between ACGL and Louis T. Petrillo(a) and Amendment to Change in Control Agreement, dated as of December 31, 2008(t)†
- 10.9 Employment Agreement, dated as of October 23, 2001, among ACGL, Arch Re Bermuda and Marc Grandisson(d), First Amendment to same, dated as of November 16, 2005(m) and Second Amendment to same, dated as of November 24, 2008(t)†
- 10.10 Employment Letter Agreement, dated as of May 29, 2005, between ACGL and W. Preston Hutchings(l) and Amendment to same, dated as of May 21, 2008(q)†
- 10.11 Employment Agreement, dated as of October 27, 2008, between ACGL and John D. Vollaro(r)†
- 10.12 Employment Agreement, dated as of July 25, 2012, between ACGL and Mark D. Lyons(bb)†
- 10.13 Employment Agreement, dated as of June 5, 2009, between Arch Insurance Group Inc. and David McElroy(cc) and Amendment to same, dated as of July 25, 2012(cc)†
- 10.14 Amended and Restated Employment Agreement, dated October 1, 2014, between Arch Capital Group Ltd. and Constantine Iordanou (mm)
- 10.15 Assumption of Change in Control Agreements(c)†

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10.16	Arch U.S. Executive Supplemental Non-Qualified Savings and Retirement Plan(t)†
10.17	Asset Purchase Agreement, dated as of February 7, 2013 (“PMI Asset Purchase Agreement”), by and among the Receiver of PMI Mortgage Insurance Co. in Rehabilitation on behalf of PMI Mortgage Insurance Co. (the “Receiver”), Arch U.S. MI Services Inc. and Arch U.S.(ee) and the Amendment No.1, dated as of May 31, 2013, to the PMI Asset Purchase Agreement (gg)
10.18	Stock Purchase Agreement, dated as of February 7, 2013 (“CMG Stock Purchase Agreement”), by and among the Receiver, CMFG Life Insurance Company, CMG Mortgage Insurance Company, Arch U.S. MI Holdings Inc. and Arch U.S.(ee) and Amendment No. 1, dated as of May 31, 2013, to the CMG Stock Purchase Agreement (gg)
10.19.1	Stock Purchase Agreement, dated as of May 13, 2004, by and among Protective Underwriting Services, Inc. (“Protective”), Arch Capital Holdings Ltd. (“Arch Capital Holdings”) and ACGL, as amended by Amendment No. 1, dated as of July 9, 2004, Amendment No. 2, dated as of July 13, 2004, Amendment No. 3, dated as of July 16, 2004 and Amendment No. 4, dated as of July 28, 2004(i)
10.19.2	Waiver Letter Agreement related to the Stock Purchase Agreement, dated as of October 5, 2004, signed by Arch Capital Holdings, ACGL and Protective(j)
10.20	Amended and Restated Credit Agreement, dated as of June 30, 2014, by and among Arch Capital Group Ltd. and its subsidiaries, Arch Capital Group (U.S.) Inc., Arch Reinsurance Ltd., Arch Reinsurance Company, Arch Reinsurance Europe Underwriting Limited, Arch Insurance Company, Arch Specialty Insurance Company and Arch Insurance Company (Europe) Limited, and Bank of America, N.A., as Administrative Agent, Fronting Bank and L/C Administrator, JPMorgan Chase Bank, N.A. and Wells Fargo Bank, National Association, as Co-Syndication Agents, U.S. Bank National Association and Lloyds Bank plc, as Co-Documentation Agents, Merrill Lynch, Pierce, Fenner & Smith Incorporated, J.P. Morgan Securities LLC and Wells Fargo Securities, LLC, as Joint Lead Arrangers and Joint Book Managers and the other lenders party thereto (kk)
12	Statement regarding computation of ratios (filed herewith)
21	Subsidiaries of Registrant (filed herewith)
23	Consent of PricewaterhouseCoopers LLP (filed herewith)
24	Power of Attorney (filed herewith)
25	Form T-1 Statement of Eligibility of Trustee(k)(jj)
31.1	Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)
31.2	Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)
32.1	Certification of Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith)
32.2	Certification of Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith)
101	The following financial information from ACGL’s Annual Report on Form 10-K for the year ended December 31, 2014 formatted in XBRL: (i) Consolidated Balance Sheets at December 31, 2014 and 2013; (ii) Consolidated Statements of Income for the years ended December 31, 2014, 2013 and 2012; (iii) Consolidated Statements of Comprehensive Income for the years ended December 31, 2014, 2013 and 2012; (iv) Consolidated Statements of Changes in Shareholders’ Equity for the years ended December 31, 2014, 2013 and 2012; (v) Consolidated Statements of Cash Flows for the years ended December 31, 2014, 2013 and 2012; and (vi) Notes to Consolidated Financial Statements (filed herewith)

(a) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on September 8, 2000, and incorporated by reference.

(b) Filed as an annex to our Definitive Proxy Statement/Prospectus included in our Registration Statement on Form S-4 (No. 333-45418), as filed with the SEC on September 26, 2000, and incorporated by reference.

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- (c) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2000, as filed with the SEC on April 2, 2001, and incorporated by reference.
- (d) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on January 4, 2002, and incorporated by reference.
- (e) Filed as an exhibit to our Report on Form 10-Q for the period ended June 30, 2002, as filed with the SEC on August 14, 2002, and incorporated by reference.
- (f) Filed as an exhibit to our Report on Form 10-Q for the period ended September 30, 2003, as filed with the SEC on November 12, 2003, and incorporated by reference.
- (g) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2003, as filed with the SEC on March 10, 2004, and incorporated by reference.
- (h) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on May 7, 2004, and incorporated by reference.
- (i) Filed as an exhibit to our Report on Form 10-Q for the period ended June 30, 2004, as filed with the SEC on August 9, 2004, and incorporated by reference.
- (j) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on October 8, 2004, and incorporated by reference.
- (k) Revised form of agreement originally filed as an exhibit to our Report on Form 8-K, as filed with the SEC on September 28, 2004, and incorporated by reference.



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- (l) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on June 9, 2005, and incorporated by reference.
- (m) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2005, as filed with the SEC on March 13, 2006, and incorporated by reference.
- (n) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2006, as filed with the SEC on November 9, 2006, and incorporated by reference.
- (o) Filed as an appendix to our Definitive Proxy Statement, as filed with the SEC on April 3, 2007, and incorporated by reference.
- (p) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2007, as filed with the SEC on February 29, 2008, and incorporated by reference.
- (q) Filed as an exhibit to our Report on Form 10-Q for the period ending June 30, 2008, as filed with the SEC on August 8, 2008, and incorporated by reference.
- (r) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on October 28, 2008, and incorporated by reference.
- (s) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2008, as filed with the SEC on November 10, 2008, and incorporated by reference.
- (t) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2008, as filed with the SEC on March 2, 2009, and incorporated by reference.
- (u) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2009, as filed with the SEC on November 9, 2009, and incorporated by reference.
- (v) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2009, as filed with the SEC on February 26, 2010, and incorporated by reference.
- (w) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2010, as filed with the SEC on November 8, 2010, and incorporated by reference.
- (x) Filed as an exhibit to our Annual Report on Form 10-K for the period ending December 31, 2010, as filed with the SEC on February 28, 2011, and incorporated by reference.
- (y) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2011, as filed with the SEC on November 8, 2011, and incorporated by reference.
- (z) Filed as an appendix to our Definitive Proxy Statement, as filed with the SEC on March 27, 2012, and incorporated by reference.
- (aa) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on April 2, 2012, and incorporated by reference.
- (bb) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on July 30, 2012, and incorporated by reference.
- (cc) Filed as an exhibit to our Report on Form 10-Q for the period ending June 30, 2012, as filed with the SEC on August 8, 2012, and incorporated by reference.
- (dd) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2012, as filed with the SEC on November 9, 2012, and incorporated by reference.
- (ee) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on February 8, 2013, and incorporated by reference.
- (ff) Filed as an exhibit to our Annual Report on Form 10-K for the year ended December 31, 2012, as filed with the SEC on March 1, 2013, and incorporated by reference.
- (gg) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on June 5, 2013, and incorporated by reference.
- (hh) Filed as an exhibit to our Report on Form 10-Q for the period ending June 30, 2013, as filed with the SEC on August 9, 2013, and incorporated by reference.
- (ii) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2013, as filed with the SEC on November 8, 2013, and incorporated by reference.
- (jj)

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Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on December 13, 2013, and incorporated by reference.

(kk) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on July 1, 2014, and incorporated by reference.

(ll) Filed as an exhibit to our Report on Form 10-Q for the period ending June 30, 2014, as filed with the SEC on August 8, 2014, and incorporated by reference.

(mm) Filed as an exhibit to our Report on Form 8-K, as filed with the SEC on October 6, 2014, and incorporated by reference.

(nn) Filed as an exhibit to our Report on Form 10-Q for the period ending September 30, 2014, as filed with the SEC on November 7, 2014, and incorporated by reference.

† Management contract or compensatory plan or arrangement.

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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.

ARCH CAPITAL GROUP LTD.

(Registrant)

By: /s/ Constantine Iordanou

Name: Constantine Iordanou

Title: Chairman of the Board of Directors,  
President & Chief Executive Officer

February 27, 2015

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 dates indicated.

Name	Title	Date
/s/ Constantine Iordanou		
Constantine Iordanou	Chairman of the Board of Directors, President and Chief Executive Officer (Principal Executive Officer)	February 27, 2015
/s/ Mark D. Lyons		
Mark D. Lyons	Executive Vice President, Chief Financial Officer and Treasurer (Principal Financial and Principal Accounting Officer)	February 27, 2015
*		
John L. Bunce, Jr.	Director	February 27, 2015
*		
Eric W. Doppstadt	Director	February 27, 2015
*		
Kewsong Lee	Director	February 27, 2015
*		
Yiorgos Lillikas	Director	February 27, 2015

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Name	Title	Date
*		
James J. Meenaghan	Director	February 27, 2015
*		
Deanna M. Mulligan	Director	February 27, 2015
*		
Louis J. Paglia	Director	February 27, 2015
*		
John M. Pasquesi	Director	February 27, 2015
*		
Brian S. Posner	Director	February 27, 2015
*		
Eugene S. Sunshine	Director	February 27, 2015
*		
John D. Vollaro	Director	February 27, 2015

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\* By Mark D. Lyons, as attorney-in-fact and agent, pursuant to a power of attorney, a copy of which has been filed with the Securities and Exchange Commission as Exhibit 24 to this report.

/s/ Mark D. Lyons  
Name: Mark D. Lyons  
Attorney-in-Fact

## SCHEDULE III

ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
SUPPLEMENTARY INSURANCE INFORMATION

(U.S. dollars in thousands)

	Deferred Acquisition Costs, Net	Reserves for Losses and Loss Adjustment Expenses	Unearned Premiums	Net Premiums Earned	Net Investment Income (1)	Net Losses and Loss Adjustment Expenses Incurred	Amortization of Deferred Acquisition Costs	Other Operating Expenses (2)	Net Premiums Written
December 31, 2014									
Insurance	\$178,545	\$6,161,500	\$1,237,099	\$2,017,370	NM	\$1,260,953	\$316,308	\$335,157	\$2,146,654
Reinsurance	148,130	2,690,070	666,233	1,279,328	NM	532,450	261,438	147,964	1,265,991
Mortgage	38,321	118,550	148,232	193,573	NM	55,674	49,400	66,891	204,837
Other	49,529	66,328	180,014	103,477	NM	70,173	30,116	6,268	274,456
Total	\$414,525	\$9,036,448	\$2,231,578	\$3,593,748	NM	\$1,919,250	\$657,262	\$556,280	\$3,891,938
December 31, 2013									
Insurance	158,121	6,137,121	1,192,188	1,876,014	NM	1,188,445	311,904	315,387	1,948,796
Reinsurance	167,642	2,680,288	612,725	1,218,672	NM	486,236	234,373	134,563	1,313,001
Mortgage	16,551	7,287	91,452	51,266	NM	4,743	17,826	8,377	89,570
Total	\$342,314	\$8,824,696	\$1,896,365	\$3,145,952	NM	\$1,679,424	\$564,103	\$458,327	\$3,351,367
December 31, 2012									
Insurance	\$141,962	\$6,149,247	\$1,077,211	\$1,800,343	NM	\$1,283,841	\$298,983	\$307,489	\$1,825,334
Reinsurance	106,677	2,781,424	517,619	1,118,127	NM	574,821	204,903	118,245	1,158,790
Mortgage	14,183	2,621	53,148	16,670	NM	2,615	4,998	4,301	68,111
Total	\$262,822	\$8,933,292	\$1,647,978	\$2,935,140	NM	\$1,861,277	\$508,884	\$430,035	\$3,052,235

(1) The Company does not manage its assets by segment and, accordingly, net investment income is not allocated to each underwriting segment. See Note 5 for information related to the 'other' segment.

(2) Certain other operating expenses relate to the Company's corporate segment (non-underwriting). Such amounts are not reflected in the table above. See Note 5.

SCHEDULE IV  
ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES  
REINSURANCE  
(U.S. dollars in thousands)

	Gross Amount	Ceded to Other Companies (1)	Assumed From Other Companies (1)	Net Amount	Percentage of Amount Assumed to Net	
Year Ended December 31, 2014						
Premiums Written:						
Insurance	\$2,974,996	\$(862,015)	\$33,673	\$2,146,654	1.6	%
Reinsurance	22,405	(261,255)	1,504,841	1,265,991	118.9	%
Mortgage	103,545	(22,519)	123,811	204,837	60.4	%
Other	—	(14,171)	288,627	274,456	105.2	%
Total	\$3,100,946	\$(948,678)	\$1,739,670	\$3,891,938	44.7	%
Year Ended December 31, 2013						
Premiums Written:						
Insurance	\$2,682,446	\$(763,713)	\$30,063	\$1,948,796	1.5	%
Reinsurance	72,136	(86,620)	1,327,485	1,313,001	101.1	%
Mortgage	—	—	89,570	89,570	100.0	%
Total	\$2,754,582	\$(845,256)	\$1,442,041	\$3,351,367	43.0	%
Year Ended December 31, 2012						
Premiums Written:						
Insurance	\$2,562,788	\$(768,625)	\$31,171	\$1,825,334	1.7	%
Reinsurance	111,076	(55,099)	1,102,813	1,158,790	95.2	%
Mortgage	—	—	68,111	68,111	100.0	%
Total	\$2,673,864	\$(816,926)	\$1,195,297	\$3,052,235	39.2	%

Certain amounts included in the gross premiums written of each segment are related to intersegment transactions and are included in the gross premiums written of each segment. Accordingly, the sum of gross premiums written (1) for each segment does not agree to the total gross premiums written as shown in the table above due to the elimination of intersegment transactions in the total.

SCHEDULE VI

ARCH CAPITAL GROUP LTD. AND SUBSIDIARIES

SUPPLEMENTARY INFORMATION FOR PROPERTY AND CASUALTY INSURANCE UNDERWRITERS

(U.S. dollars in thousands)

Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I	Column J	Column K
Affiliation with Registrant	Deferred Acquisition Costs, Net	Reserves for Losses and Loss Adjustment Expenses	Discount, if any, deducted in Column C	Unearned Premiums	Net Premiums Earned	Net Investment Income	Net Losses and Loss Adjustment Expenses Incurred Related to (a) Current Year (b) Prior Years	Amortization of Deferred Acquisition Costs	Not Paid Losses and Net Loss Adjustment Expenses	Written Premiums
Consolidated Subsidiaries										
2014	\$414,525	\$9,036,448	\$14,732	\$2,231,578	\$3,593,748	\$302,585	\$2,246,152 \$(326,902)	\$657,262	\$1,697,736	\$3,891,351
2013	342,314	8,824,696	12,539	1,896,365	3,145,952	267,219	1,943,466 (264,042)	564,103	1,708,817	3,351,351
2012	262,822	8,933,292	10,485	1,647,978	2,935,140	294,895	2,082,805 (221,528)	508,884	1,465,379	3,052,351