

PROGRESSIVE CORP/OH/
Form 10-Q
October 31, 2018

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

FORM 10-Q

(Mark One)

Quarterly Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934
For the quarterly period ended September 30, 2018

or
 Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934
For the transition period from _____ to _____

Commission File Number: 1-9518

THE PROGRESSIVE CORPORATION
(Exact name of registrant as specified in its charter)

Ohio 34-0963169
(State or other jurisdiction of (I.R.S.
incorporation or organization) Employer
Identification
No.)

6300 Wilson Mills Road, Mayfield Village, Ohio 44143
(Address of principal executive offices) (Zip Code)
(440) 461-5000
(Registrant's telephone number, including area code)

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

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

Large accelerated filer Accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company) Smaller reporting company

Emerging growth company

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

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

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date.

Common Shares, \$1.00 par value: 583,144,753 outstanding at September 30, 2018

PART I—FINANCIAL INFORMATION

Item 1. Financial Statements.

The Progressive Corporation and Subsidiaries
Consolidated Statements of Comprehensive Income
(unaudited)

Periods Ended September 30, (millions — except per share amounts)	Three Months			Nine Months		
	2018	2017	% Change	2018	2017	% Change
Revenues						
Net premiums earned	\$7,930.5	\$6,544.0	21	\$22,738.7	\$18,884.0	20
Investment income	218.1	142.9	53	576.5	410.9	40
Net realized gains (losses) on securities:						
Net realized gains (losses) on security sales	108.4	19.2	465	205.8	116.8	76
Net holding period gains (losses) on securities	95.8	(0.9)	NM	(5.9)	0.3	NM
Net impairment losses recognized in earnings	(22.1)	(43.0)	(49)	(33.2)	(57.8)	(43)
Total net realized gains (losses) on securities	182.1	(24.7)	NM	166.7	59.3	181
Fees and other revenues	122.6	96.3	27	342.4	270.3	27
Service revenues	42.5	33.3	28	119.6	94.5	27
Other gains (losses)	0	0	NM	0	0.2	(100)
Total revenues	8,495.8	6,791.8	25	23,943.9	19,719.2	21
Expenses						
Losses and loss adjustment expenses	5,523.1	5,050.5	9	15,769.2	13,928.8	13
Policy acquisition costs	662.7	540.1	23	1,889.7	1,557.2	21
Other underwriting expenses	1,095.9	877.7	25	3,123.0	2,568.3	22
Investment expenses	5.8	5.8	0	18.0	18.0	0
Service expenses	35.8	28.9	24	102.1	81.8	25
Interest expense	42.0	37.4	12	120.5	117.6	2
Total expenses	7,365.3	6,540.4	13	21,022.5	18,271.7	15
Net Income						
Income before income taxes	1,130.5	251.4	350	2,921.4	1,447.5	102
Provision for income taxes	200.3	36.6	447	560.2	429.7	30
Net income	930.2	214.8	333	2,361.2	1,017.8	132
Net (income) loss attributable to noncontrolling interest (NCI)	(1.8)	9.2	(120)	(10.6)	(1.9)	458
Net income attributable to Progressive	\$928.4	\$224.0	314	\$2,350.6	\$1,015.9	131
Other Comprehensive Income (Loss)						
Changes in:						
Total net unrealized gains (losses) on securities	\$(39.0)	\$75.5	(152)	\$(243.6)	\$300.5	(181)
Net unrealized losses on forecasted transactions	0.2	0.1	100	0.6	(5.6)	(111)
Foreign currency translation adjustment	0	0.6	(100)	0	0.8	(100)
Other comprehensive income (loss)	(38.8)	76.2	(151)	(243.0)	295.7	(182)
Other comprehensive (income) loss attributable to NCI	0.4	(0.7)	(157)	5.0	(2.9)	(272)
Comprehensive income attributable to Progressive	\$890.0	\$299.5	197	\$2,112.6	\$1,308.7	61
Computation of Per Share Earnings Available to Progressive Common Shareholders						
Net income attributable to Progressive	\$928.4	\$224.0	314	\$2,350.6	\$1,015.9	131
Less: Preferred share dividends	6.7	0	NM	14.6	0	NM

Edgar Filing: PROGRESSIVE CORP/OH/ - Form 10-Q

Net income available to common shareholders	\$921.7	\$224.0	311	\$2,336.0	\$1,015.9	130
Average common shares outstanding - Basic	582.7	581.3	0	582.2	580.7	0
Net effect of dilutive stock-based compensation	3.9	4.3	(9)	4.5	5.0	(10)
Total average equivalent common shares - Diluted	586.6	585.6	0	586.7	585.7	0
Basic: Earnings per common share	\$1.58	\$0.39	310	\$4.01	\$1.75	129
Diluted: Earnings per common share	\$1.57	\$0.38	311	\$3.98	\$1.73	130
Dividends declared per common share ¹	\$0	\$0	NM	\$0	\$0	NM

NM = Not Meaningful

¹ Progressive maintains an annual variable common share dividend program. See Note 9 – Dividends for further discussion.

See notes to consolidated financial statements.

The Progressive Corporation and Subsidiaries
Consolidated Balance Sheets
(unaudited)

(millions)	September 30,		December 31,
	2018	2017	2017
Assets			
Available-for-sale securities, at fair value:			
Fixed maturities (amortized cost: \$25,963.4, \$18,583.1, and \$20,209.9)	\$25,642.7	\$18,660.0	\$20,201.7
Short-term investments (amortized cost: \$2,809.7, \$4,311.5, and \$2,869.4)	2,809.7	4,311.5	2,869.4
Total available-for-sale securities	28,452.4	22,971.5	23,071.1
Equity securities, at fair value:			
Nonredeemable preferred stocks (cost: \$758.9, \$700.6, and \$698.6)	840.9	813.7	803.8
Common equities (cost: \$1,135.0, \$1,485.5, and \$1,499.0)	3,057.3	3,209.5	3,399.8
Total equity securities	3,898.2	4,023.2	4,203.6
Total investments	32,350.6	26,994.7	27,274.7
Cash and cash equivalents	121.9	224.9	265.0
Restricted cash	0.8	31.4	10.3
Total cash, cash equivalents, and restricted cash	122.7	256.3	275.3
Accrued investment income	159.5	113.0	119.7
Premiums receivable, net of allowance for doubtful accounts of \$230.1, \$189.3, and \$210.9	6,776.6	5,519.9	5,422.5
Reinsurance recoverables, including \$114.1, \$76.4, and \$103.3 on paid losses and loss adjustment expenses	2,490.5	2,701.1	2,273.4
Prepaid reinsurance premiums	379.6	211.7	203.3
Deferred acquisition costs	962.7	782.6	780.5
Property and equipment, net of accumulated depreciation of \$1,004.6, \$908.4, and \$940.6	1,139.3	1,129.4	1,119.6
Goodwill	452.7	452.7	452.7
Intangible assets, net of accumulated amortization of \$229.7, \$157.7, and \$175.7	312.6	384.6	366.6
Other assets	396.9	386.6	412.9
Total assets	\$45,543.7	\$38,932.6	\$38,701.2
Liabilities			
Unearned premiums	\$11,009.2	\$9,005.3	\$8,903.5
Loss and loss adjustment expense reserves	14,620.8	13,353.3	13,086.9
Net deferred income taxes	53.5	201.5	135.0
Accounts payable, accrued expenses, and other liabilities	3,924.1	3,272.7	3,481.0
Debt ¹	3,859.9	3,312.2	3,306.3
Total liabilities	33,467.5	29,145.0	28,912.7
Redeemable noncontrolling interest (NCI) ²	217.4	498.2	503.7
Shareholders' Equity			
Serial Preferred Shares (authorized 20.0)			
Serial Preferred Shares, Series B, no par value (cumulative, liquidation preference \$1,000 per share) (authorized, issued, and outstanding 0.5, 0, and 0)	493.9	0	0
Common shares, \$1.00 par value (authorized 900.0; issued 797.5, including treasury shares of 214.4, 215.9, and 215.8)	583.1	581.6	581.7
Paid-in capital	1,443.4	1,365.1	1,389.2
Retained earnings	9,602.1	6,116.5	6,031.7
Accumulated other comprehensive income (loss):			

Edgar Filing: PROGRESSIVE CORP/OH/ - Form 10-Q

Net unrealized gains (losses) on securities	(249.9	) 1,240.1	1,295.0
Net unrealized losses on forecasted transactions	(17.4	) (15.0	) (14.8
Foreign currency translation adjustment	0	(0.3	) 0
Accumulated other comprehensive (income) loss attributable to NCI	3.6	1.4	2.0
Total accumulated other comprehensive income (loss) attributable to Progressive	(263.7	) 1,226.2	1,282.2
Total shareholders' equity	11,858.8	9,289.4	9,284.8
Total liabilities, redeemable NCI, and shareholders' equity	\$45,543.7	\$38,932.6	\$38,701.2

¹ Consists of long-term debt. See Note 4 – Debt for further discussion.

² See Note 12 – Redeemable Noncontrolling Interest for further discussion.

See notes to consolidated financial statements.

The Progressive Corporation and Subsidiaries
Consolidated Statements of Changes in Shareholders' Equity
(unaudited)

Nine Months Ended September 30, (millions — except per share amounts)	2018	2017
Serial Preferred Shares, No Par Value		
Balance, Beginning of period	\$0	\$0
Issuance of Serial Preferred Shares, Series B	493.9	0
Balance, End of period	\$493.9	\$0
Common Shares, \$1.00 Par Value		
Balance, Beginning of period	\$581.7	\$579.9
Treasury shares purchased	(1.4)	(1.5)
Net restricted equity awards issued/vested	2.8	3.2
Balance, End of period	\$583.1	\$581.6
Paid-In Capital		
Balance, Beginning of period	\$1,389.2	\$1,303.4
Treasury shares purchased	(3.3)	(3.4)
Net restricted equity awards issued/vested	(2.8)	(3.2)
Amortization of equity-based compensation	53.3	74.3
Reinvested dividends on restricted stock units	(0.8)	0.3
Adjustment to carrying amount of redeemable noncontrolling interest	7.8	(6.3)
Balance, End of period	\$1,443.4	\$1,365.1
Retained Earnings		
Balance, Beginning of period	\$6,031.7	\$5,140.4
Net income attributable to Progressive	2,350.6	1,015.9
Treasury shares purchased	(74.0)	(57.2)
Cash dividends declared on Serial Preferred Shares, Series B (\$27.024 per share and \$0)	(13.5)	0
Reinvested dividends on restricted stock units	0.8	(0.3)
Cumulative effect of change in accounting principle ¹	1,300.2	0
Reclassification of disproportionate tax effects ¹	4.3	0
Other, net	2.0	17.7
Balance, End of period	\$9,602.1	\$6,116.5
Accumulated Other Comprehensive Income (Loss) Attributable to Progressive		
Balance, Beginning of period	\$1,282.2	\$933.4
Attributable to noncontrolling interest	1.6	(2.9)
Other comprehensive income	(243.0)	295.7
Cumulative effect of change in accounting principle ¹	(1,300.2)	0
Reclassification of disproportionate tax effects ¹	(4.3)	0
Balance, End of period	\$(263.7)	\$1,226.2
Total Shareholders' Equity	\$11,858.8	\$9,289.4

¹ See Note 14 – New Accounting Standards for further discussion.

There are 5.0 million Voting Preference Shares authorized; no such shares have been issued.

See notes to consolidated financial statements.

The Progressive Corporation and Subsidiaries		
Consolidated Statements of Cash Flows		
(unaudited)		
Nine Months Ended September 30,	2018	2017
(millions)		
Cash Flows From Operating Activities		
Net income	\$2,361.2	\$1,017.8
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation	137.8	126.7
Amortization of intangible assets	54.0	48.2
Net amortization of fixed-income securities	29.7	67.5
Amortization of equity-based compensation	54.0	76.6
Net realized (gains) losses on securities	(166.7)	(59.3)
Net (gains) losses on disposition of property and equipment	7.4	5.3
Other (gains) losses	0	(0.2)
Changes in:		
Premiums receivable	(1,354.1)	(1,010.3)
Reinsurance recoverables	(217.1)	(816.1)
Prepaid reinsurance premiums	(176.3)	(41.2)
Deferred acquisition costs	(182.2)	(131.4)
Income taxes	25.0	(111.2)
Unearned premiums	2,105.7	1,536.7
Loss and loss adjustment expense reserves	1,533.9	1,985.1
Accounts payable, accrued expenses, and other liabilities	1,032.8	622.1
Other, net	(43.6)	(93.2)
Net cash provided by operating activities	5,201.5	3,223.1
Cash Flows From Investing Activities		
Purchases:		
Fixed maturities	(14,430.6)	(9,623.6)
Equity securities	(234.9)	(155.2)
Sales:		
Fixed maturities	4,659.6	3,431.7
Equity securities	773.5	150.6
Maturities, paydowns, calls, and other:		
Fixed maturities	3,911.5	3,872.5
Equity securities	15.0	50.0
Net sales (purchases) of short-term investments	91.9	(721.8)
Net unsettled security transactions	11.0	210.5
Purchases of property and equipment	(164.8)	(109.7)
Sales of property and equipment	8.1	13.8
Acquisition of additional shares of ARX Holding Corp.	(296.9)	0
Acquisition of an insurance company, net of cash acquired	0	(18.1)
Net cash used in investing activities	(5,656.6)	(2,899.3)
Cash Flows From Financing Activities		
Net proceeds from issuance of Serial Preferred Shares, Series B	493.9	0
Net proceeds from debt issuances	589.5	841.1
Payments of debt	(37.1)	(42.8)
Redemption/reacquisition of subordinated debt	0	(635.6)
Dividends paid to common shareholders	(654.9)	(395.4)

Edgar Filing: PROGRESSIVE CORP/OH/ - Form 10-Q

Dividends paid to preferred shareholders	(13.5	) 0
Proceeds from exercise of equity options	3.3	0.5
Acquisition of treasury shares for restricted stock tax liabilities	(78.3	) (57.2)
Acquisition of treasury shares acquired in open market	(0.4	) (4.9)
Net cash provided by (used in) financing activities	302.5	(294.3)
Effect of exchange rate changes on cash	0	0.4
Increase (decrease) in cash, cash equivalents, and restricted cash	(152.6	) 29.9
Cash, cash equivalents, and restricted cash – January 1	275.3	226.4
Cash, cash equivalents, and restricted cash – September 30	\$122.7	\$256.3
See notes to consolidated financial statements.		

5

The Progressive Corporation and Subsidiaries
Notes to Consolidated Financial Statements
(unaudited)

Note 1 Basis of Presentation — The accompanying consolidated financial statements include the accounts of The Progressive Corporation and ARX Holding Corp. (ARX), and their respective wholly owned insurance and non-insurance subsidiaries and affiliates in which Progressive or ARX has a controlling financial interest. The Progressive Corporation owned 86.8% of the outstanding capital stock of ARX at September 30, 2018 and 69.0% at September 30, 2017 and December 31, 2017. The increase in Progressive's ownership of ARX at September 30, 2018, is primarily due to the "put" by minority ARX shareholders of 204,527 of their ARX shares during the second quarter 2018, including exercised stock options, to Progressive pursuant to the stockholders' agreement. All intercompany accounts and transactions are eliminated in consolidation.

The consolidated financial statements reflect all normal recurring adjustments that, in the opinion of management, were necessary for a fair statement of the results for the interim periods presented. The results of operations for the period ended September 30, 2018, are not necessarily indicative of the results expected for the full year. These consolidated financial statements and the notes thereto should be read in conjunction with Progressive's audited financial statements and accompanying notes included in Exhibit 13 to our Annual Report on Form 10-K for the year ended December 31, 2017 ("2017 Annual Report to Shareholders").

Other assets on the consolidated balance sheets include properties that are considered "held for sale," if any. The fair value of these properties, less the estimated cost to sell them, was \$20.5 million at September 30, 2018, and \$5.3 million at both September 30, 2017 and December 31, 2017.

Note 2 Investments — The following tables present the composition of our investment portfolio by major security type, consistent with our classification of how we manage, monitor, and measure the portfolio. Our securities are reported in our Consolidated Balance Sheets at fair value. The changes in fair value for our fixed-maturity securities (other than hybrid securities) are reported as a component of accumulated other comprehensive income, net of deferred income taxes, in our Consolidated Balance Sheets.

The net holding period gains (losses) reported below represent the inception-to-date changes in fair value. The changes in the net holding period gains (losses) between periods for the hybrid securities and, beginning in 2018, equity securities are recorded as a component of net realized gains (losses) on securities in our Consolidated Statements of Comprehensive Income. Prior to 2018, the change in fair value of our equity securities was part of accumulated other comprehensive income (see Note 14 – New Accounting Standards for further discussion).

(\$ in millions)	Cost	Gross Unrealized Gains	Gross Unrealized Losses	Net Holding Period Gains (Losses)	Fair Value	% of Total Fair Value
September 30, 2018						
Available-for-sale securities:						
Fixed maturities:						
U.S. government obligations	\$9,942.0	\$ 0	\$ (189.5)	\$0	\$9,752.5	30.2 %
State and local government obligations	1,610.1	1.9	(23.2)	0	1,588.8	4.9
Foreign government obligations	0	0	0	0	0	0
Corporate debt securities	7,229.1	4.9	(85.2)	(2.0)	7,146.8	22.1
Residential mortgage-backed securities	767.8	7.6	(5.6)	0	769.8	2.4
Commercial mortgage-backed securities	2,986.5	3.3	(30.5)	0	2,959.3	9.1
Other asset-backed securities	3,205.0	1.4	(13.6)	0.1	3,192.9	9.9
Redeemable preferred stocks	222.9	13.2	(1.4)	(2.1)	232.6	0.7
Total fixed maturities	25,963.4	32.3	(349.0)	(4.0)	25,642.7	79.3
Short-term investments	2,809.7	0	0	0	2,809.7	8.7
Total available-for-sale securities	28,773.1	32.3	(349.0)	(4.0)	28,452.4	88.0
Equity securities:						
Nonredeemable preferred stocks	758.9	0	0	82.0	840.9	2.6
Common equities	1,135.0	0	0	1,922.3	3,057.3	9.4
Total equity securities	1,893.9	0	0	2,004.3	3,898.2	12.0
Total portfolio ^{1,2}	\$30,667.0	\$ 32.3	\$ (349.0)	\$2,000.3	\$32,350.6	100.0 %

Edgar Filing: PROGRESSIVE CORP/OH/ - Form 10-Q

(\$ in millions)	Cost	Gross Unrealized Gains	Gross Unrealized Losses	Net Holding Period Gains (Losses)	Fair Value	% of Total Fair Value
September 30, 2017						
Fixed maturities:						
U.S. government obligations	\$4,612.2	\$ 3.0	\$ (20.2)	\$ 0	\$4,595.0	17.0 %
State and local government obligations	2,332.2	35.0	(3.1)	0.1	2,364.2	8.7
Foreign government obligations	24.2	0	0	0	24.2	0.1
Corporate debt securities	5,195.7	32.7	(4.2)	1.4	5,225.6	19.4
Residential mortgage-backed securities	947.0	12.2	(3.6)	0	955.6	3.5
Commercial mortgage-backed securities	2,763.7	17.0	(12.8)	0	2,767.9	10.3
Other asset-backed securities	2,485.6	6.4	(2.0)	0.2	2,490.2	9.2
Redeemable preferred stocks	222.5	16.4	(2.0)	0.4	237.3	0.9
Total fixed maturities	18,583.1	122.7	(47.9)	2.1	18,660.0	69.1
Equity securities:						
Nonredeemable preferred stocks	700.6	120.4	(7.3)	0	813.7	3.0
Common equities	1,485.5	1,729.5	(5.5)	0	3,209.5	11.9
Short-term investments	4,311.5	0	0	0	4,311.5	16.0
Total portfolio ^{1,2}	\$25,080.7	\$ 1,972.6	\$ (60.7)	\$ 2.1	\$26,994.7	100.0 %

(\$ in millions)	Cost	Gross Unrealized Gains	Gross Unrealized Losses	Net Holding Period Gains (Losses)	Fair Value	% of Total Fair Value
December 31, 2017						
Fixed maturities:						
U.S. government obligations	\$6,688.8	\$ 1.1	\$ (44.0)	\$ 0	\$6,645.9	24.4 %
State and local government obligations	2,285.6	20.7	(9.3)	0.1	2,297.1	8.4
Foreign government obligations	0	0	0	0	0	0
Corporate debt securities	4,997.2	14.8	(14.4)	0.1	4,997.7	18.3
Residential mortgage-backed securities	828.8	11.3	(3.4)	0	836.7	3.1
Commercial mortgage-backed securities	2,760.1	11.8	(13.3)	0	2,758.6	10.1
Other asset-backed securities	2,454.5	4.5	(4.5)	0.2	2,454.7	9.0
Redeemable preferred stocks	194.9	17.8	(1.5)	(0.2)	211.0	0.8
Total fixed maturities	20,209.9	82.0	(90.4)	0.2	20,201.7	74.1
Equity securities:						
Nonredeemable preferred stocks	698.6	114.0	(8.8)	0	803.8	2.9
Common equities	1,499.0	1,901.0	(0.2)	0	3,399.8	12.5
Short-term investments	2,869.4	0	0	0	2,869.4	10.5
Total portfolio ^{1,2}	\$25,276.9	\$ 2,097.0	\$ (99.4)	\$ 0.2	\$27,274.7	100.0 %

¹Our portfolio reflects the effect of unsettled security transactions; at September 30, 2018 and 2017, we had \$5.2 million and \$238.3 million, respectively, included in “other liabilities,” compared to \$5.8 million included in “other assets” at December 31, 2017.

²The total fair value of the portfolio at September 30, 2018 and 2017, and December 31, 2017, included \$1.8 billion, \$1.1 billion, and \$1.6 billion, respectively, of securities held in a consolidated, non-insurance subsidiary of the holding company, net of any unsettled security transactions.

Short-Term Investments Our short-term investments may include commercial paper and other investments that are expected to mature or are redeemable within one year.

We did not have any open repurchase or reverse repurchase transactions in our short-term investment portfolio at September 30, 2018 and 2017, or December 31, 2017. To the extent we enter into repurchase or reverse repurchase transactions, and consistent with past practice, we would elect not to offset these transactions and would report them on a gross basis on our balance sheets despite the option to elect to offset these transactions as long as they were with the same counterparty and subject to an enforceable master netting arrangement.

Hybrid Securities Included in our fixed-maturity securities are hybrid securities, which are reported at fair value:

(millions)	September 30,		
	2018	2017	December 31, 2017
Fixed maturities:			
State and local government obligations	\$3.6	\$2.4	\$ 6.1
Corporate debt securities	159.7	114.9	99.8
Other asset-backed securities	5.0	7.1	6.7
Redeemable preferred stocks	72.0	35.5	30.3
Total hybrid securities	\$240.3	\$159.9	\$ 142.9

Certain securities in our portfolio are accounted for as hybrid securities because they contain embedded derivatives that are not deemed to be clearly and closely related to the host investments. Since the embedded derivatives (e.g., change-in-control put option, debt-to-equity conversion, or any other feature unrelated to the credit quality or risk of default of the issuer that could impact the amount or timing of our expected future cash flows) do not have observable intrinsic values, we have elected to record the changes in fair value of these securities through income as realized gains or losses.

Fixed Maturities The composition of fixed maturities by maturity at September 30, 2018, was:

(millions)	Cost	Fair Value
Less than one year	\$4,192.3	\$4,196.4
One to five years	16,545.0	16,315.6
Five to ten years	5,123.1	5,028.3
Ten years or greater	103.0	102.4
Total	\$25,963.4	\$25,642.7

Asset-backed securities are classified in the maturity distribution table based upon their projected cash flows. All other securities which do not have a single maturity date are reported based upon expected average maturity. Contractual maturities may differ from expected maturities because the issuers of the securities may have the right to call or prepay obligations.

Gross Unrealized Losses As of September 30, 2018, we had \$349.0 million of gross unrealized losses in our fixed-maturity securities. A review of our fixed-maturity securities indicated that the issuers were current with respect to their interest obligations and that there was no evidence of deterioration of the current cash flow projections that would indicate we would not receive the remaining principal at maturity.

Edgar Filing: PROGRESSIVE CORP/OH/ - Form 10-Q

The following tables show the composition of gross unrealized losses by major security type and by the length of time that individual securities have been in a continuous unrealized loss position:

(\$ in millions)	Total No. of Sec.	Total Fair Value	Gross Unrealized Losses	Less than 12 Months		12 Months or Greater		Unrealized Losses	
				No. of Sec.	Fair Value	No. of Sec.	Fair Value		
September 30, 2018									
Fixed maturities:									
U.S. government obligations	91	\$9,752.5	\$ (189.5)	39	\$5,025.0	\$ (67.2)	52	\$4,727.5	\$ (122.3)
State and local government obligations	459	1,394.3	(23.2)	227	680.5	(6.4)	232	713.8	(16.8)
Corporate debt securities	369	5,959.2	(85.2)	221	3,963.9	(45.3)	148	1,995.3	(39.9)
Residential mortgage-backed securities	234	521.7	(5.6)	44	325.0	(0.6)	190	196.7	(5.0)
Commercial mortgage-backed securities	151	2,392.7	(30.5)	80	1,164.2	(8.3)	71	1,228.5	(22.2)
Other asset-backed securities	219	2,828.6	(13.6)	111	1,821.8	(4.0)	108	1,006.8	(9.6)
Redeemable preferred stocks	3	30.8	(1.4)	1	4.7	(0.1)	2	26.1	(1.3)
Total fixed maturities	1,526	\$22,879.8	\$ (349.0)	723	\$12,985.1	\$ (131.9)	803	\$9,894.7	\$ (217.1)
(\$ in millions)	Total No. of Sec.	Total Fair Value	Gross Unrealized Losses	Less than 12 Months		12 Months or Greater		Unrealized Losses	
				No. of Sec.	Fair Value	No. of Sec.	Fair Value		
September 30, 2017									
Fixed maturities:									
U.S. government obligations	54	\$3,804.0	\$ (20.2)	31	\$2,302.2	\$ (7.1)	23	\$1,501.8	\$ (13.1)
State and local government obligations	169	610.4	(3.1)	40	141.0	(0.7)	129	469.4	(2.4)
Corporate debt securities	113	1,523.8	(4.2)	59	636.0	(1.1)	54	887.8	(3.1)
Residential mortgage-backed securities	191	341.5	(3.6)	26	39.2	(0.1)	165	302.3	(3.5)
Commercial mortgage-backed securities	105	1,588.9	(12.8)	61	1,073.5	(4.6)	44	515.4	(8.2)
Other asset-backed securities	148	1,393.2	(2.0)	103	920.8	(1.0)	45	472.4	(1.0)
Redeemable preferred stocks	2	21.4	(2.0)	1	10.9	0	1	10.5	(2.0)
Total fixed maturities	782	9,283.2	(47.9)	321	5,123.6	(14.6)	461	4,159.6	(33.3)
Equity securities:									
Nonredeemable preferred stocks	3	72.4	(7.3)	0	0	0	3	72.4	(7.3)
Common equities	67	52.0	(5.5)	62	49.3	(4.9)	5	2.7	(0.6)
Total equity securities	70	124.4	(12.8)	62	49.3	(4.9)	8	75.1	(7.9)
Total portfolio	852	\$9,407.6	\$ (60.7)	383	\$5,172.9	\$ (19.5)	469	\$4,234.7	\$ (41.2)
(\$ in millions)	Total No. of Sec.	Total Fair Value	Gross Unrealized Losses	Less than 12 Months		12 Months or Greater		Unrealized Losses	
				No. of Sec.	Fair Value	No. of Sec.	Fair Value		
December 31, 2017									
Fixed maturities:									
	58	\$5,817.0	\$ (44.0)	41	\$4,869.3	\$ (34.6)	17	\$947.7	\$ (9.4)

U.S. government obligations									
State and local government obligations	358	1,200.3	(9.3)	) 230	737.6	(4.4)	) 128	462.7	(4.9)
Corporate debt securities	222	2,979.4	(14.4)	) 171	2,072.9	(9.1)	) 51	906.5	(5.3)
Residential mortgage-backed securities	201	300.9	(3.4)	) 30	75.1	(0.2)	) 171	225.8	(3.2)
Commercial mortgage-backed securities	105	1,682.3	(13.3)	) 63	1,221.2	(5.9)	) 42	461.1	(7.4)
Other asset-backed securities	197	1,837.3	(4.5)	) 134	1,377.8	(3.3)	) 63	459.5	(1.2)
Redeemable preferred stocks	2	21.8	(1.5)	) 1	10.8	(0.1)	) 1	11.0	(1.4)
Total fixed maturities	1,143	13,839.0	(90.4)	) 670	10,364.7	(57.6)	) 473	3,474.3	(32.8)
Equity securities:									
Nonredeemable preferred stocks	4	127.8	(8.8)	) 1	56.5	(0.5)	) 3	71.3	(8.3)
Common equities	19	13.4	(0.2)	) 18	13.4	(0.2)	) 1	0	0
Total equity securities	23	141.2	(9.0)	) 19	69.9	(0.7)	) 4	71.3	(8.3)
Total portfolio	1,166	\$13,980.2	\$(99.4)	) 689	\$10,434.6	\$(58.3)	) 477	\$3,545.6	\$(41.1)

Since both September 30, 2017 and December 31, 2017, the number of securities in our fixed-maturity portfolio with unrealized losses increased as a result of rising interest rates. We had no material decreases in valuation as a result of credit rating downgrades and all of the securities in the table above are current with respect to required principal and interest payments.

Other-Than-Temporary Impairment (OTTI) The following table shows the total non-credit portion of the OTTI recorded in accumulated other comprehensive income, reflecting the original non-credit loss at the time the credit impairment was determined (i.e., unadjusted for valuation changes subsequent to the original write-down):

(millions)	September 30,		December 31,
	2018	2017	2017
Fixed maturities:			
Residential mortgage-backed securities	\$(19.7)	\$(19.7)	\$ (19.7)
Commercial mortgage-backed securities	(0.1)	(0.4)	(0.3)
Total fixed maturities	\$(19.8)	\$(20.1)	\$ (20.0)

The following tables provide rollforwards of the amounts related to credit losses recognized in earnings for the periods ended September 30, 2018 and 2017, for which a portion of the OTTI losses were also recognized in accumulated other comprehensive income at the time the credit impairments were determined and recognized:

(millions)	Three Months Ended		
	September 30, 2018		
	Mortgage-Backed		
	Residential	Commercial	Total
Balance at June 30, 2018	\$0.3	\$ 0.5	\$0.8
Credit losses for which an OTTI was not previously recognized	0	0	0
Reductions for securities sold/matured	0	0	0
Change in recoveries of future cash flows expected to be collected ¹	0	0	0
Balance at September 30, 2018	\$0.3	\$ 0.5	\$0.8

(millions)	Nine Months Ended		
	September 30, 2018		
	Mortgage-Backed		
	Residential	Commercial	Total
Balance at December 31, 2017	\$0	\$ 0.5	\$0.5
Credit losses for which an OTTI was not previously recognized	0	0	0
Reductions for securities sold/matured	0	0	0
Change in recoveries of future cash flows expected to be collected ¹	0.3	0	0.3
Balance at September 30, 2018	\$0.3	\$ 0.5	\$0.8

(millions)	Three Months Ended		
	September 30, 2017		
	Mortgage-Backed		
	Residential	Commercial	Total
Balance at June 30, 2017	\$0.2	\$ 0.1	\$0.3
Credit losses for which an OTTI was not previously recognized	0	0.4	0.4
Reductions for securities sold/matured	0	0	0
Change in recoveries of future cash flows expected to be collected ¹	0	0	0
Balance at September 30, 2017	\$0.2	\$ 0.5	\$0.7

(millions)	Nine Months Ended		
	September 30, 2017		
	Mortgage-Backed		
	Residential	Commercial	Total
Balance at December 31, 2016	\$11.1	\$ 0.4	\$11.5
Credit losses for which an OTTI was not previously recognized	0	0.4	0.4
Reductions for securities sold/matured	(10.9)	(0.3)	(11.2)
Change in recoveries of future cash flows expected to be collected ¹	0	0	0
Balance at September 30, 2017	\$0.2	\$ 0.5	\$0.7

¹Reflects the current period change in the expected recovery of prior impairments that will be accreted into income over the remaining life of the security.

Although we determined it is more likely that we will not be required to sell the securities prior to the recovery of their respective cost bases (which could be maturity), we are required to measure the amount of potential credit losses on the securities that were in an unrealized loss position. In that process, we considered a number of factors and inputs related to the individual securities. The methodology and significant inputs used to measure the amount of credit losses in our portfolio included: current performance indicators on the business model or underlying assets (e.g., delinquency rates, foreclosure rates, and default rates); credit support (via current levels of subordination); historical credit ratings; and updated cash flow expectations based upon these performance indicators. In order to determine the amount of credit loss, if any, the net present value of the cash flows expected (i.e., expected recovery value) was calculated using the current book yield for each security, and was compared to its current amortized value. In the event that the net present value was below the amortized value, a credit loss would be deemed to exist, and the security would be written down. We did not have any credit impairment write-downs for the nine months ended September 30, 2018.

Realized Gains (Losses) The components of net realized gains (losses) for the three and nine months ended September 30, were:

(millions)	Three Months		Nine Months	
	2018	2017	2018	2017
Gross realized gains on security sales				
Available-for-sale securities:				
U.S. government obligations	\$0.1	\$0.9	\$1.8	\$5.8
State and local government obligations	0.2	4.0	9.4	7.1
Corporate and other debt securities	1.7	5.1	2.1	16.5
Residential mortgage-backed securities	0	2.8	0	23.8
Commercial mortgage-backed securities	0	0	2.0	2.4
Other asset-backed securities	0	0	0.1	0.3
Redeemable preferred stocks	0.2	7.7	4.5	8.0
Total available-for-sale securities	2.2	20.5	19.9	63.9
Equity securities:				
Nonredeemable preferred stocks	0.1	3.0	3.7	54.6
Common equities	126.8	5.7	265.2	23.0
Total equity securities	126.9	8.7	268.9	77.6
Subtotal gross realized gains on security sales	129.1	29.2	288.8	141.5
Gross realized losses on security sales				
Available-for-sale securities:				
U.S. government obligations	(7.6)	(1.0)	(46.4)	(4.6)
State and local government obligations	(0.6)	0	(2.5)	(0.1)
Corporate and other debt securities	(3.2)	(1.8)	(7.3)	(4.6)
Residential mortgage-backed securities	0	(0.1)	0	(0.4)
Commercial mortgage-backed securities	0	(0.5)	(6.3)	(3.6)
Other asset-backed securities	(0.1)	0	(1.1)	0
Redeemable preferred stocks	0	(6.4)	0	(6.4)
Total available-for-sale securities	(11.5)	(9.8)	(63.6)	(19.7)
Equity securities:				
Nonredeemable preferred stocks	0	(0.1)	(2.3)	(5.9)
Common equities	(9.2)	(0.2)	(17.1)	(0.3)
Total equity securities	(9.2)	(0.3)	(19.4)	(6.2)
Subtotal gross realized losses on security sales	(20.7)	(10.1)	(83.0)	(25.9)
Net realized gains (losses) on security sales				
Available-for-sale securities:				
U.S. government obligations	(7.5)	(0.1)	(44.6)	1.2
State and local government obligations	(0.4)	4.0	6.9	7.0
Corporate and other debt securities	(1.5)	3.3	(5.2)	11.9
Residential mortgage-backed securities	0	2.7	0	23.4
Commercial mortgage-backed securities	0	(0.5)	(4.3)	(1.2)
Other asset-backed securities	(0.1)	0	(1.0)	0.3
Redeemable preferred stocks	0.2	1.3	4.5	1.6
Total available-for-sale securities	(9.3)	10.7	(43.7)	44.2
Equity securities:				
Nonredeemable preferred stocks	0.1	2.9	1.4	48.7
Common equities	117.6	5.5	248.1	22.7
Total equity securities	117.7	8.4	249.5	71.4

Edgar Filing: PROGRESSIVE CORP/OH/ - Form 10-Q

Litigation settlements and other gains (losses)	0	0.1	0	1.2
Subtotal net realized gains (losses) on security sales	108.4	19.2	205.8	116.8
Net holding period gains (losses)				
Hybrid securities	1.3	(0.9)	(4.2)	0.3
Equity securities	94.5	0	(1.7)	0
Subtotal net holding period gains (losses)	95.8	(0.9)	(5.9)	0.3
Other-than-temporary impairment losses				
Fixed maturities:				
Commercial mortgage-backed securities	0	(0.4)	0	(0.4)
Total fixed maturities	0	(0.4)	0	(0.4)
Equity securities:				
Common equities	0	(8.9)	0	(12.5)
Subtotal investment other-than-temporary impairment losses	0	(9.3)	0	(12.9)
Other asset impairment	(22.1)	(33.7)	(33.2)	(44.9)
Subtotal other-than-temporary impairment losses	(22.1)	(43.0)	(33.2)	(57.8)
Total net realized gains (losses) on securities	\$182.1	\$(24.7)	\$166.7	\$59.3

Gross realized gains were predominantly the result of sales in our indexed common stock portfolio in order to reduce the overall portfolio risk, while gross realized losses were predominantly in our available-for-sale securities and were largely the result of an increase in interest rates. Also included are holding period change in valuation gains and losses on equity securities and hybrid securities, recoveries from litigation settlements related to investments, and write-downs for securities determined to be other-than-temporarily impaired. The other asset impairment relates to renewable energy investments, which are reflected in “other assets” on the balance sheet, under which the future pretax cash flows are expected to be less than the carrying value of the assets.

The following table reflects our holding period realized gains (losses) on equity securities recognized for the three and nine months ended September 30, 2018 for equity securities held at quarter end:

(millions)	Three Months 2018	Nine Months 2018
Total net gains (losses) recognized during the period on equity securities	\$ 212.2	\$ 247.8
Less: Net gains (losses) recognized on equity securities sold during the period	117.7	249.5
Net holding period gains (losses) recognized during the period on equity securities held at period end	\$ 94.5	\$(1.7)

Note: Comparative disclosure for the prior year period is not meaningful.

Net Investment Income The components of net investment income for the three and nine months ended September 30, were:

(millions)	Three Months		Nine Months	
	2018	2017	2018	2017
Available-for-sale securities:				
Fixed maturities:				
U.S. government obligations	\$47.7	\$18.4	\$133.4	\$48.1
State and local government obligations	9.0	12.9	28.1	39.3
Foreign government obligations	0	0.1	0	0.3
Corporate debt securities	62.1	32.2	150.1	93.1
Residential mortgage-backed securities	6.9	8.0	20.4	27.9
Commercial mortgage-backed securities	24.1	20.0	65.5	57.1
Other asset-backed securities	21.2	12.1	50.9	33.8
Redeemable preferred stocks	3.3	2.8	8.8	9.1
Total fixed maturities	174.3	106.5	457.2	308.7
Short-term investments	15.7	10.6	40.7	26.4
Total available-for-sale securities	190.0	117.1	497.9	335.1
Equity securities:				
Nonredeemable preferred stocks	11.2	10.9	32.5	33.0
Common equities	16.9	14.9	46.1	42.8
Total equity securities	28.1	25.8	78.6	75.8
Investment income	218.1	142.9	576.5	410.9
Investment expenses	(5.8)	(5.8)	(18.0)	(18.0)
Net investment income	\$212.3	\$137.1	\$558.5	\$392.9

The amount of investment income (interest and dividends) we recognize varies based on the average assets held during the year and the book yields of the securities in our portfolio. The increase in net investment income on a year-over-year basis for the three and nine months ended September 30, 2018, was due to a combination of an increase in average assets and an increase in portfolio yields. The increase in average assets was due to strong underwriting growth and profitability, as well as the \$600 million debt and \$500 million preferred stock issuances in the first quarter of 2018. The increase in portfolio yields was a result of our decisions to hold a short-duration

portfolio, which allowed us to reinvest significant maturities and paydowns of principal at higher yields, and to increase the portfolio duration from 2.2 years at the end of the third quarter 2017 to 2.6 years at the end of the third quarter 2018 as interest rates generally rose.

Trading Securities At September 30, 2018 and 2017, and December 31, 2017, we did not hold any trading securities and did not have any net realized gains (losses) on trading securities for the three and nine months ended September 30, 2018 and 2017.

Derivative Instruments

At September 30, 2018 and 2017, and December 31, 2017, we had no open derivative positions. During March 2017, we entered into a forecasted debt issuance hedge, against a possible rise in interest rates, in conjunction with the \$850 million of 4.125% Senior Notes due 2047 issued in April 2017. Upon issuance, we closed the hedge and recognized, as part of accumulated other comprehensive income, a pretax unrealized loss of \$8.0 million in April 2017.

See Note 4 – Debt for further discussion.

Note 3 Fair Value — We have categorized our financial instruments, based on the degree of subjectivity inherent in the method by which they are valued, into a fair value hierarchy of three levels, as follows:

Level 1: Inputs are unadjusted quoted prices in active markets for identical instruments at the measurement date (e.g., U.S. government obligations, which are continually priced on a daily basis, active exchange-traded equity securities, and certain short-term securities).

Level 2: Inputs (other than quoted prices included within Level 1) that are observable for the instrument either directly or indirectly (e.g., certain corporate and municipal bonds and certain preferred stocks). This includes: (i) quoted prices for similar instruments in active markets, (ii) quoted prices for identical or similar instruments in markets that are not active, (iii) inputs other than quoted prices that are observable for the instruments, and (iv) inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3: Inputs that are unobservable. Unobservable inputs reflect our subjective evaluation about the assumptions market participants would use in pricing the financial instrument (e.g., certain structured securities and privately held investments).

Determining the fair value of the investment portfolio is the responsibility of management. As part of the responsibility, we evaluate whether a market is distressed or inactive in determining the fair value for our portfolio. We review certain market level inputs to evaluate whether sufficient activity, volume, and new issuances exist to create an active market. Based on this evaluation, we concluded that there was sufficient activity related to the sectors and securities for which we obtained valuations.

The composition of the investment portfolio by major security type and our outstanding debt was:

(millions)	Fair Value			Total	Cost
	Level 1	Level 2	Level 3		
September 30, 2018					
Fixed maturities:					
U.S. government obligations	\$9,752.5	\$0	\$0	\$9,752.5	\$9,942.0
State and local government obligations	0	1,588.8	0	1,588.8	1,610.1
Foreign government obligations	0	0	0	0	0
Corporate debt securities	0	7,146.8	0	7,146.8	7,229.1
Subtotal	9,752.5	8,735.6	0	18,488.1	18,781.2
Asset-backed securities:					
Residential mortgage-backed	0	769.8	0	769.8	767.8
Commercial mortgage-backed	0	2,959.3	0	2,959.3	2,986.5
Other asset-backed	0	3,192.9	0	3,192.9	3,205.0
Subtotal asset-backed securities	0	6,922.0	0	6,922.0	6,959.3
Redeemable preferred stocks:					
Financials	0	67.8	0	67.8	65.2
Utilities	0	4.7	0	4.7	4.8
Industrials	10.1	150.0	0	160.1	152.9
Subtotal redeemable preferred stocks	10.1	222.5	0	232.6	222.9
Total fixed maturities	9,762.6	15,880.1	0	25,642.7	25,963.4
Short-term investments	2,573.4	236.3	0	2,809.7	2,809.7
Total available-for-sale securities	12,336.0	16,116.4	0	28,452.4	28,773.1
Equity securities:					
Nonredeemable preferred stocks:					
Financials	76.3	724.0	0	800.3	718.9
Utilities	0	35.6	0	35.6	35.0
Industrials	0	0	5.0	5.0	5.0
Subtotal nonredeemable preferred stocks	76.3	759.6	5.0	840.9	758.9
Common equities:					
Common stocks	3,057.0	0	0	3,057.0	1,134.7
Other risk investments	0	0	0.3	0.3	0.3
Subtotal common equities	3,057.0	0	0.3	3,057.3	1,135.0
Total equity securities	3,133.3	759.6	5.3	3,898.2	1,893.9
Total portfolio	\$15,469.3	\$16,876.0	\$5.3	\$32,350.6	\$30,667.0
Debt	\$0	\$3,926.9	\$0	\$3,926.9	\$3,859.9

(millions)	Fair Value			Total	Cost
	Level 1	Level 2	Level 3		
September 30, 2017					
Fixed maturities:					
U.S. government obligations	\$4,595.0	\$0	\$0	\$4,595.0	\$4,612.2
State and local government obligations	0	2,364.2	0	2,364.2	2,332.2
Foreign government obligations	24.2	0	0	24.2	24.2
Corporate debt securities	0	5,225.6	0	5,225.6	5,195.7
Subtotal	4,619.2	7,589.8	0	12,209.0	12,164.3
Asset-backed securities:					
Residential mortgage-backed	0	955.6	0	955.6	947.0
Commercial mortgage-backed	0	2,767.9	0	2,767.9	2,763.7
Other asset-backed	0	2,490.2	0	2,490.2	2,485.6
Subtotal asset-backed securities	0	6,213.7	0	6,213.7	6,196.3
Redeemable preferred stocks:					
Financials	0	63.8	0	63.8	61.4
Utilities	0	31.9	0	31.9	30.5
Industrials	0	141.6	0	141.6	130.6
Subtotal redeemable preferred stocks	0	237.3	0	237.3	222.5
Total fixed maturities	4,619.2	14,040.8	0	18,660.0	18,583.1
Equity securities:					
Nonredeemable preferred stocks:					
Financials	82.2	726.5	0	808.7	695.6
Utilities	0	0	0	0	0
Industrials	0	0	5.0	5.0	5.0
Subtotal nonredeemable preferred stocks	82.2	726.5	5.0	813.7	700.6
Common equities:					
Common stocks	3,209.2	0	0	3,209.2	1,485.2
Other risk investments	0	0	0.3	0.3	0.3
Subtotal common equities	3,209.2	0	0.3	3,209.5	1,485.5
Total fixed maturities and equity securities	7,910.6	14,767.3	5.3	22,683.2	20,769.2
Short-term investments	3,175.4	1,136.1	0	4,311.5	4,311.5
Total portfolio	\$11,086.0	\$15,903.4	\$5.3	\$26,994.7	\$25,080.7
Debt	\$0	\$3,574.6	\$43.3	\$3,617.9	\$3,312.2

(millions)	Fair Value			Total	Cost
	Level 1	Level 2	Level 3		
December 31, 2017					
Fixed maturities:					
U.S. government obligations	\$6,645.9	\$0	\$0	\$6,645.9	\$6,688.8
State and local government obligations	0	2,297.1	0	2,297.1	2,285.6
Foreign government obligations	0	0	0	0	0
Corporate debt securities	0	4,997.7	0	4,997.7	4,997.2
Subtotal	6,645.9	7,294.8	0	13,940.7	13,971.6
Asset-backed securities:					
Residential mortgage-backed	0	836.7	0	836.7	828.8
Commercial mortgage-backed	0	2,758.6	0	2,758.6	2,760.1
Other asset-backed	0	2,454.7	0	2,454.7	2,454.5
Subtotal asset-backed securities	0	6,050.0	0	6,050.0	6,043.4
Redeemable preferred stocks:					
Financials	0	64.1	0	64.1	61.3
Utilities	0	11.4	0	11.4	10.1
Industrials	0	135.5	0	135.5	123.5
Subtotal redeemable preferred stocks	0	211.0	0	211.0	194.9
Total fixed maturities	6,645.9	13,555.8	0	20,201.7	20,209.9
Equity securities:					
Nonredeemable preferred stocks:					
Financials	80.6	718.2	0	798.8	693.6
Utilities	0	0	0	0	0
Industrials	0	0	5.0	5.0	5.0
Subtotal nonredeemable preferred stocks	80.6	718.2	5.0	803.8	698.6
Common equities:					
Common stocks	3,399.5	0	0	3,399.5	1,498.7
Other risk investments	0	0	0.3	0.3	0.3
Subtotal common equities	3,399.5	0	0.3	3,399.8	1,499.0
Total fixed maturities and equity securities	10,126.0	14,274.0	5.3	24,405.3	22,407.5
Short-term investments	1,824.4	1,045.0	0	2,869.4	2,869.4
Total portfolio	\$11,950.4	\$15,319.0	\$5.3	\$27,274.7	\$25,276.9
Debt	\$0	\$3,606.5	\$37.1	\$3,643.6	\$3,306.3

Our portfolio valuations, excluding short-term investments, classified as either Level 1 or Level 2 in the above tables are priced exclusively by external sources, including: pricing vendors, dealers/market makers, and exchange-quoted prices. We did not have any transfers between Level 1 and Level 2 during 2018 or 2017.

Our short-term security holdings classified as Level 1 are highly liquid, actively marketed, and have a very short duration, primarily 90 days or less to redemption. These securities are held at their original cost, adjusted for any accretion of discount, since that value very closely approximates what an active market participant would be willing to pay for such securities. The remainder of our short-term securities are classified as Level 2 and are not priced externally since these securities continually trade at par value. These securities are classified as Level 2 since they are primarily longer-dated securities issued by municipalities that contain either liquidity facilities or mandatory put features within one year.

At September 30, 2018, vendor-quoted prices represented 76% of our Level 1 classifications (excluding short-term investments), compared to 59% and 66% at September 30, 2017 and December 31, 2017, respectively. The securities quoted by vendors in Level 1 primarily represent our holdings in U.S. Treasury Notes, which are frequently traded, and the quotes are considered similar to exchange-traded quotes. The balance of our Level 1 pricing comes from

quotes obtained directly from trades made on active exchanges.

18

At September 30, 2018 and 2017, and December 31, 2017, vendor-quoted prices comprised 99%, 98%, and 98%, respectively, of our Level 2 classifications (excluding short-term investments), while dealer-quoted prices represented 1%, 2%, and 2%, respectively. In our process for selecting a source (e.g., dealer or pricing service) to provide pricing for securities in our portfolio, we reviewed documentation from the sources that detailed the pricing techniques and methodologies used by these sources and determined if their policies adequately considered market activity, either based on specific transactions for the particular security type or based on modeling of securities with similar credit quality, duration, yield, and structure that were recently transacted. Once a source is chosen, we continue to monitor any changes or modifications to their processes by reviewing their documentation on internal controls for pricing and market reviews. We review quality control measures of our sources as they become available to determine if any significant changes have occurred from period to period that might indicate issues or concerns regarding their evaluation or market coverage.

As part of our pricing procedures, we obtain quotes from more than one source to help us fully evaluate the market price of securities. However, our internal pricing policy is to use a consistent source for individual securities in order to maintain the integrity of our valuation process. Quotes obtained from the sources are not considered binding offers to transact. Under our policy, when a review of the valuation received from our selected source appears to be outside of what is considered market level activity (which is defined as trading at spreads or yields significantly different than those of comparable securities or outside the general sector level movement without a reasonable explanation), we may use an alternate source's price. To the extent we determine that it may be prudent to substitute one source's price for another, we will contact the initial source to obtain an understanding of the factors that may be contributing to the significant price variance, which often leads the source to adjust their pricing input data for future pricing.

To allow us to determine if our initial source is providing a price that is outside of a reasonable range, we review our portfolio pricing on a weekly basis. When necessary, we challenge prices from our sources when a price provided does not match our expectations based on our evaluation of market trends and activity. Initially, we perform a review of our portfolio by sector to identify securities whose prices appear outside of a reasonable range. We then perform a more detailed review of fair values for securities disclosed as Level 2. We review dealer bids and quotes for these and/or similar securities to determine the market level context for our valuations. We then evaluate inputs relevant for each class of securities disclosed in the preceding hierarchy tables.

For our structured debt securities, including commercial, residential, and asset-backed securities, we evaluate available market-related data for these and similar securities related to collateral, delinquencies, and defaults for historical trends and reasonably estimable projections, as well as historical prepayment rates and current prepayment assumptions and cash flow estimates. We further stratify each class of our structured debt securities into more finite sectors (e.g., planned amortization class, first pay, second pay, senior, subordinated, etc.) and use duration, credit quality, and coupon to determine if the fair value is appropriate.

For our corporate debt and preferred stock (redeemable and nonredeemable) portfolios, as well as the notes and debentures issued by The Progressive Corporation (see Note 4 – Debt), we review securities by duration, coupon, and credit quality, as well as changes in interest rate and credit spread movements within that stratification. The review also includes recent trades, including: volume traded at various levels that establish a market, issuer specific fundamentals, and industry specific economic news as it comes to light.

For our municipal securities (e.g., general obligations, revenue, and housing), we stratify the portfolio to evaluate securities by type, coupon, credit quality, and duration to review price changes relative to credit spread and interest rate changes. Additionally, we look to economic data as it relates to geographic location as an indication of price-to-call or maturity predictors. For municipal housing securities, we look to changes in cash flow projections, both historical and reasonably estimable projections, to understand yield changes and their effect on valuation. Lastly, for our short-term securities, we look at acquisition price relative to the coupon or yield. Since our short-term securities are typically 90 days or less to maturity, with the majority listed in Level 2 being 30 days or less to redemption, we believe that acquisition price is the best estimate of fair value.

We also review data assumptions as supplied by our sources to determine if that data is relevant to current market conditions. In addition, we independently review each sector for transaction volumes, new issuances, and changes in

spreads, as well as the overall movement of interest rates along the yield curve to determine if sufficient activity and liquidity exists to provide a credible source for our market valuations.

During each valuation period, we create internal estimations of portfolio valuation (performance returns), based on current market-related activity (i.e., interest rate and credit spread movements and other credit-related factors) within each major sector of our portfolio. We compare our internally generated portfolio results with those generated based on quotes we receive externally and research material valuation differences. We compare our results to index returns for each major sector adjusting

for duration and credit quality differences to better understand our portfolio's results. Additionally, we review on a monthly basis our external sales transactions and compare the actual final market sales prices to previous market valuation prices. This review provides us further validation that our pricing sources are providing market level prices, since we are able to explain significant price changes (i.e., greater than 2%) as known events occur in the marketplace and affect a particular security's price at sale.

This analysis provides us with additional comfort regarding the source's process, the quality of its review, and its willingness to improve its analysis based on feedback from clients. We believe this effort helps ensure that we are reporting the most representative fair values for our securities.

Except as described below, our Level 3 securities are also priced externally; however, due to several factors (e.g., nature of the securities, level of activity, and lack of similar securities trading to obtain observable market level inputs), these valuations are more subjective in nature. Certain private equity investments and fixed-income investments included in the Level 3 category are valued using external pricing supplemented by internal review and analysis.

After all the valuations are received and our review is complete, if the inputs used by vendors are determined to not contain sufficient observable market information, we will reclassify the affected security valuations to Level 3. At September 30, 2018 and 2017, and December 31, 2017, we did not have any securities in our fixed-maturity portfolio listed as Level 3.

At September 30, 2018 and 2017, and December 31, 2017, we held one private nonredeemable preferred security with a value of \$5.0 million that was priced internally. The security was purchased during the third quarter 2017 and the value at all periods equals the cost at acquisition. A review of their latest available financial statements did not reveal any significant changes that would impact the security's fair value.

We review the prices from our external sources for reasonableness using internally developed assumptions to derive prices for the securities, which are then compared to the prices we received. During 2018 or 2017, there were no material assets or liabilities measured at fair value on a nonrecurring basis. Based on our review, all prices received from external sources remained unadjusted.

We did not have any material changes in fair value associated with Level 3 assets for the three and nine months ended September 30, 2018 and 2017. Due to the relative size of the Level 3 securities' fair values compared to the total portfolio's fair value, any changes in pricing methodology would not have a significant change in valuation that would materially impact net or comprehensive income.

Note 4 Debt — Debt at each of the balance sheet periods consisted of:

(millions)	September 30, 2018		September 30, 2017		December 31, 2017	
	Carrying Value	Fair Value	Carrying Value	Fair Value	Carrying Value	Fair Value
3.75% Senior Notes due 2021	\$499.0	\$503.9	\$498.7	\$525.7	\$498.8	\$520.7
2.45% Senior Notes due 2027	496.4	453.3	496.0	475.3	496.1	477.9
6 5/8% Senior Notes due 2029	296.3	360.3	296.0	388.3	296.1	382.3
6.25% Senior Notes due 2032	395.4	481.8	395.3	518.7	395.3	516.9
4.35% Senior Notes due 2044	346.6	349.7	346.5	379.8	346.5	388.7
3.70% Senior Notes due 2045	395.3	359.1	395.2	392.6	395.2	402.9
4.125% Senior Notes due 2047	841.3	828.4	841.2	894.2	841.2	917.1
4.20% Senior Notes due 2048	589.6	590.4	0	0	0	0
Other debt instruments	0	0	43.3	43.3	37.1	37.1
Total	\$3,859.9	\$3,926.9	\$3,312.2	\$3,617.9	\$3,306.3	\$3,643.6

The Progressive Corporation issued \$600 million of 4.20% Senior Notes due 2048 (the "4.20% Senior Notes") in March 2018, and \$850 million of 4.125% Senior Notes due 2047 (the "4.125% Senior Notes") in April 2017, in underwritten public offerings. The net proceeds from these issuances, after deducting underwriters' discounts, commissions, and

other issuance costs, were approximately \$589.5 million and \$841.1 million, respectively. In addition, upon issuance of the 4.125% Senior Notes, we closed a forecasted debt issuance hedge, which was entered into to hedge against a possible rise in interest rates, and recognized an \$8.0 million pretax unrealized loss as part of accumulated other comprehensive income (loss), which is being amortized as an adjustment to interest expense over the life of the 4.125% Senior Notes. Consistent with the other senior notes

issued by Progressive, interest on the 4.20% Senior Notes and 4.125% Senior Notes is payable semiannually and both are redeemable, in whole or in part, at any time. See Note 16 – Subsequent Event, for a discussion of senior notes issued in October 2018.

During the first quarter 2018, ARX repaid its term loans, in their entirety, in the aggregate principal amount of \$37.1 million and, during the third quarter 2017, redeemed its junior subordinated notes and senior notes, in their entirety, in the aggregate principal amount of \$65.2 million. Both the repayment and the redemptions were funded in part with proceeds from fixed-rate loans made by The Progressive Corporation. These intercompany transactions were eliminated in consolidation.

During the second quarter 2018, The Progressive Corporation entered into a new line of credit with PNC Bank, National Association (PNC) in the maximum principal amount of \$250 million. The prior line of credit, entered into in April 2017, had expired. The line of credit is on the same terms and conditions as the previous line of credit. Subject to the terms and conditions of the line of credit documents, advances under the line of credit (if any) will bear interest at a variable rate equal to the higher of PNC's Prime Rate or the sum of the Federal Funds Open Rate plus 50 basis points. Each advance must be repaid on the 30th day after the advance or, if earlier, on April 30, 2019, the expiration date of the line of credit. Prepayments are permitted without penalty. The line of credit is uncommitted and, as such, all advances are subject to PNC's discretion. We had no borrowings under either line of credit during any of the periods presented.

Note 5 Income Taxes — Deferred tax assets and liabilities are recorded based on the difference between the financial statement and tax bases of assets and liabilities at the enacted tax rates. We review our deferred tax assets regularly for recoverability. At September 30, 2018 and 2017, and December 31, 2017, we determined that we did not need a valuation allowance on our gross deferred tax assets. Although realization of the deferred tax assets is not assured, management believes that it is more likely than not the deferred tax assets will be realized based on our expectation that we will be able to fully utilize the deductions that are ultimately recognized for tax purposes.

For deferred taxes on items that are reported in accumulated other comprehensive income, our policy is to release the income tax effects related to these items on an aggregate portfolio approach. For this purpose, we consider our available-for-sale fixed maturity securities and hedges on forecasted transactions as separate portfolios.

For the three and nine months ended September 30, 2018, there have been no material changes in our uncertain tax positions.

For the third quarter 2018, our effective tax rate was 17.7% compared to 14.6% for the same period last year. On a year-to-date basis, the effective tax rate was 19.2%, compared to 29.7% for the same period last year. The federal corporate income tax rate decreased to 21% in 2018, from the previous rate of 35%, under the legislation commonly known as the Tax Cuts and Jobs Act of 2017. Despite the decrease in the federal rate, the effective tax rate for the third quarter 2018 was higher than the prior year quarter as the relative impact of the tax benefits decreased as pre-tax income increased quarter-over-prior-year quarter.

As of September 30, 2018, we have not fully completed our accounting for the tax effects of the enactment of the legislation commonly known as the Tax Cuts and Jobs Act of 2017, with regard to the deductibility of compensation expense for certain covered executives, due to uncertainty surrounding the appropriate tax treatment of outstanding performance-based awards, and with regard to loss reserve discounting due to uncertainty surrounding the discount factors to be applied. Based on an Internal Revenue Service issued notice of proposed rule-making, related to the compensation issue, we determined no adjustment was necessary during the nine months ended September 30, 2018; however, we are waiting for definitive guidance to be published on both items.

Note 6 Loss and Loss Adjustment Expense Reserves — Activity in the loss and loss adjustment expense reserves is summarized as follows:

(millions)	September 30,	
	2018	2017
Balance, Beginning of period	\$13,086.9	\$11,368.0
Less reinsurance recoverables on unpaid losses	2,170.1	1,801.0
Net balance, Beginning of period	10,916.8	9,567.0
Incurred related to:		
Current year	15,722.2	13,886.3
Prior years	47.0	42.5
Total incurred	15,769.2	13,928.8
Paid related to:		
Current year	9,409.7	8,379.4
Prior years	5,031.9	4,387.8
Total paid	14,441.6	12,767.2
Net balance, End of period	12,244.4	10,728.6
Plus reinsurance recoverables on unpaid losses	2,376.4	2,624.7
Balance, End of period	\$14,620.8	\$13,353.3

We experienced unfavorable reserve development of \$47.0 million and \$42.5 million for the first nine months of 2018 and 2017, respectively, which is reflected as “Incurred related to prior years” in the table above.

Year-to-date September 30, 2018

Accident year 2016 had approximately \$52 million of unfavorable prior year reserve development, which was in part offset by favorable development in 2017 as well as 2015 and prior accident years.

Our personal auto business incurred about \$41 million of unfavorable loss and loss adjustment expense (LAE) reserve development, with the Agency and Direct auto businesses contributing about \$30 million and \$11 million, respectively, of unfavorable development. The unfavorable development was primarily due to an increase in reopened personal injury protection claims.

Our Property business recognized unfavorable development of about \$5 million.

Our special lines products and Commercial Lines business had minimal development during the first nine months of the year.

Year-to-date September 30, 2017

Accident years 2016 and 2015 combined has approximately \$51 million of unfavorable prior year reserve development. This unfavorable development was partially offset by \$8 million of favorable development attributable to accident year 2014 and prior accident years.

Our personal auto businesses incurred \$76 million of unfavorable LAE reserve development for the first nine months of 2017, primarily in the Agency business, in part reflecting an increase in costs related to property damage and higher LAE costs.

Our Property business experienced \$24 million in favorable development primarily due to the identification of prior year losses eligible to be ceded under our catastrophe bond reinsurance program and lower severity and frequency than anticipated for accident year 2016.

The remaining favorable development for the first nine months was attributable to both our special lines and commercial auto products.

Note 7 Supplemental Cash Flow Information — Cash and cash equivalents include bank demand deposits and daily overnight reverse repurchase commitments of funds held in bank demand deposit accounts on ARX’s subsidiaries, which are primarily collateralized by U.S. Treasury notes. The amount of reverse repurchase commitments held by ARX’s subsidiaries at September 30, 2018 and 2017, and December 31, 2017, were \$152.4 million, \$189.2 million, and \$247.2 million, respectively.

Restricted cash on our consolidated balance sheets represents cash that is restricted to pay flood claims under the National Flood Insurance Program’s “Write Your Own” program, for which American Strategic Insurance and other subsidiaries of ARX (ASI) are administrators.

We paid the following in the respective periods:

	Nine Months Ended September 30,	
(millions)	2018	2017
Income taxes	\$535.8	\$538.7
Interest	116.4	107.4

Note 8 Segment Information — Our Personal Lines segment writes insurance for personal autos and recreational vehicles (our special lines products). Our Commercial Lines segment writes primary liability and physical damage insurance for automobiles and trucks owned and/or operated predominantly by small businesses in the business auto, for-hire transportation, contractor, for-hire specialty, tow, and for-hire livery markets. Our Property segment writes residential property insurance for homeowners, other property owners, and renters. Our other indemnity businesses include our run-off businesses. Our service businesses provide insurance-related services, including processing Commercial Automobile Insurance Procedures/Plans (CAIP) business and serving as an agent for homeowners, general liability, and workers’ compensation insurance, among other products, through our programs with ASI and unaffiliated insurance companies. All segment revenues are generated from external customers; all intercompany transactions, including those between Progressive and ASI, are eliminated in consolidation.

Following are the operating results for the respective periods:

(millions)	Three Months Ended September 30,				Nine Months Ended September 30,			
	2018		2017		2018		2017	
	Revenues	Pretax Profit (Loss)	Revenues	Pretax Profit (Loss)	Revenues	Pretax Profit (Loss)	Revenues	Pretax Profit (Loss)
Personal Lines								
Agency	\$3,318.2	\$372.2	\$2,840.0	\$69.5	\$9,607.7	\$1,142.2	\$8,224.0	\$524.7
Direct	3,337.2	294.4	2,734.8	128.7	9,565.3	880.3	7,908.5	466.7
Total Personal Lines ¹	6,655.4	666.6	5,574.8	198.2	19,173.0	2,022.5	16,132.5	991.4
Commercial Lines	939.6	112.7	714.0	42.8	2,632.5	307.8	2,031.2	166.4
Property ²	335.5	(7.8)	255.2	(69.0)	933.2	(31.2)	720.3	(57.5)
Other indemnity	0	(0.1)	0	0	0	0.1	0	(0.3)
Total underwriting operations	7,930.5	771.4	6,544.0	172.0	22,738.7	2,299.2	18,884.0	1,100.0
Fees and other revenues ³	122.6	NA	96.3	NA	342.4	NA	270.3	NA
Service businesses	42.5	6.7	33.3	4.4	119.6	17.5	94.5	12.7
Investments ⁴	400.2	394.4	118.2	112.4	743.2	725.2	470.2	452.2
Other gains (losses)	0	0	0	0	0	0	0.2	0.2
Interest expense	NA	(42.0)	NA	(37.4)	NA	(120.5)	NA	(117.6)
Consolidated total	\$8,495.8	\$1,130.5	\$6,791.8	\$251.4	\$23,943.9	\$2,921.4	\$19,719.2	\$1,447.5

NA = Not applicable

¹ Personal auto insurance accounted for 94% of the total Personal Lines segment net premiums earned during the three and nine months ended September 30, 2018, and 93% for the same periods in 2017; insurance for our special lines products (e.g., motorcycles, ATVs, RVs, watercraft, and snowmobiles) accounted for the balance of the Personal Lines net premiums earned.

² For the three and nine months ended September 30, 2018, pretax profit (loss) includes \$18.0 million and \$54.0 million, respectively, of amortization expense predominately associated with the acquisition of a controlling interest in ARX and \$17.2 million and \$48.2 million for the same periods in 2017. Although this expense is included in our Property segment, it is not reported in the consolidated results of ARX and, therefore, will not affect the value of net income (loss) attributable to noncontrolling interest.

³ Pretax profit (loss) for fees and other revenues is attributable to operating segments.

⁴ Revenues represent recurring investment income and total net realized gains (losses) on securities; pretax profit is net of investment expense.

23

Our management uses underwriting margin and combined ratio as primary measures of underwriting profitability. Underwriting profitability is calculated by subtracting losses and loss adjustment expenses, policy acquisition costs, and other underwriting expenses from the total of net premiums earned and fees and other revenues. The underwriting margin is the pretax underwriting profit (loss) expressed as a percentage of net premiums earned (i.e., revenues from underwriting operations). Combined ratio is the complement of the underwriting margin. Following are the underwriting margins/combined ratios for our underwriting operations for the respective periods:

	Three Months Ended September 30,				Nine Months Ended September 30,			
	2018		2017		2018		2017	
	Under-w	Combined	Under-w	Combined	Under-w	Combined	Under-w	Combined
	Margin	Ratio	Margin	Ratio	Margin	Ratio	Margin	Ratio
Personal Lines								
Agency	11.2 %	88.8	2.4 %	97.6	11.9 %	88.1	6.4 %	93.6
Direct	8.8	91.2	4.7	95.3	9.2	90.8	5.9	94.1
Total Personal Lines	10.0	90.0	3.6	96.4	10.5	89.5	6.1	93.9
Commercial Lines	12.0	88.0	6.0	94.0	11.7	88.3	8.2	91.8
Property ¹	(2.3)	102.3	(27.0)	127.0	(3.3)	103.3	(8.0)	108.0
Total underwriting operations	9.7	90.3	2.6	97.4	10.1	89.9	5.8	94.2

¹ Included in the three and nine months ended September 30, 2018, is 5.4 points and 5.8 points, respectively, of amortization expense predominately associated with the acquisition of a controlling interest in ARX and 6.7 points for the three and nine months ended September 30, 2017.

Note 9 Dividends

Common Share Dividends

We maintain a policy of paying an annual variable dividend on our common shares that, if declared, would be payable shortly after the close of the year. This annual variable dividend is based on a target percentage of after-tax underwriting income (using the statutory tax rate) multiplied by a performance factor (Gainshare factor), which is determined based on the results of the Agency auto, Direct auto, special lines, Commercial Lines, and Property business units, with minor exclusions and adjustments, and subject to the limitations discussed below. The target percentage is determined by our Board of Directors on an annual basis as part of their review of the dividend policy and announced to shareholders and the public. In December 2017, the Board determined the target percentage for 2018 to be 33-1/3% of annual after-tax underwriting income.

The Gainshare factor can range from zero to two and is determined by comparing our operating performance for the specified business units for the year to certain predetermined profitability and growth objectives approved by the Compensation Committee of the Board. This Gainshare factor is also used in the annual cash incentive program currently in place for our employees (our "Gainsharing program"). On a year-to-date basis, as of September 30, 2018, the Gainshare factor was 1.91. Since the final factor will be determined based on our results for the full year, the final factor may vary from the current factor.

Our 2018 dividend program is subject to certain limitations. If the Gainshare factor is zero or if our comprehensive income is less than after-tax underwriting income, no dividend would be payable. In addition, the ultimate decision on whether or not a dividend will be paid is in the discretion of the Board of Directors. The Board could decide to alter our policy, or not to pay the annual variable dividend, at any time prior to the declaration of the dividend for the year. Such an action by the Board could result from, among other reasons, changes in the insurance marketplace, changes in our performance or capital needs, changes in the U.S. federal income tax laws, disruptions of national or international capital markets, or other events affecting our business, liquidity, or financial position.

Following is a summary of our common shareholder dividends that were declared in the last two years:

Dividend Type	Declared	Paid	Amount of Common Share Dividends		
			Per Share	Accrued ¹	Paid ¹
Annual – Variable	December 2017	February 2018	\$ 1.1247	\$ 655.1	\$ 654.9
Annual – Variable	December 2016	February 2017	0.6808	395.4	395.4

¹ Variance between accrued and paid, if any, reflects the difference between the number of estimated and actual shares outstanding as of the record date.

Preferred Share Dividends

In the first quarter 2018, we issued 500,000 Series B Fixed-to-Floating Rate Cumulative Perpetual Serial Preferred Shares, without par value (the "Series B Preferred Shares"), with a liquidation preference of \$1,000 per share (the "stated amount"). Holders of the Series B Preferred Shares will be entitled to receive cumulative cash dividends semi-annually in March and September, if and when declared by the Board of Directors. Until March 15, 2023 (the "fixed-rate period"), the annual dividend rate is fixed at 5.375% of the stated amount per share. Beginning March 15, 2023, the annual dividend rate switches to a floating rate equal to the three-month LIBOR rate plus a spread of 2.539% applied to the stated amount per share. After the fixed-rate period and up until redemption of the Series B Preferred Shares, the dividends would be payable quarterly, if and when declared by the Board of Directors. The Series B Preferred Shares are perpetual and have no stated maturity date. After the fixed-rate period, we may redeem the Series B Preferred Shares at the stated amount plus all accrued and unpaid dividends.

During the third quarter of 2018, the Board declared a \$27.024 per share, or \$13.5 million, dividend on the Series B Preferred Shares, which was paid within the quarter.

Note 10 Other Comprehensive Income (Loss) — The components of other comprehensive income (loss), including reclassification adjustments by income statement line item, were as follows:

(millions)	Components of Changes in Accumulated Other Comprehensive Income (after tax)						
	Pretax total accumulated other comprehensive income (loss)	Total tax (provision) benefit	After tax total accumulated other comprehensive income (loss)	Total net unrealized gains (losses) on securities	Net unrealized gains (losses) on forecasted transactions	Foreign currency translation adjustment	(Income) loss attributable to NCI
Balance at June 30, 2018	\$ (280.8)	\$ 58.9	\$ (221.9)	\$ (210.9)	\$ (17.6)	\$ 0	\$ 6.6
Reclassification of disproportionate amounts ¹	(4.3)	0.9	(3.4)	0	0	0	(3.4)
Adjusted balance at June 30, 2018	(285.1)	59.8	(225.3)	(210.9)	(17.6)	0	3.2
Other comprehensive income (loss) before reclassifications:							
Investment securities	(58.7)	12.3	(46.4)	(46.4)	0	0	0
Forecasted transactions	0	0	0	0	0	0	0
Foreign currency translation adjustment	0	0	0	0	0	0	0
Loss attributable to noncontrolling interest (NCI)	0.6	(0.2)	0.4	0	0	0	0.4
Total other comprehensive income (loss) before reclassifications	(58.1)	12.1	(46.0)	(46.4)	0	0	0.4
Less: Reclassification adjustment for amounts realized in net income by income statement line item:							
Net impairment losses recognized in earnings	0	0	0	0	0	0	0
Net realized gains (losses) on securities	(9.3)	1.9	(7.4)	(7.4)	0	0	0
Interest expense	(0.2)	0	(0.2)	0	(0.2)	0	0
Total reclassification adjustment for amounts realized in net income	(9.5)	1.9	(7.6)	(7.4)	(0.2)	0	0
Total other comprehensive income (loss)	(48.6)	10.2	(38.4)	(39.0)	0.2	0	0.4
Balance at September 30, 2018	\$ (333.7)	\$ 70.0	\$ (263.7)	\$ (249.9)	\$ (17.4)	\$ 0	\$ 3.6

¹Reflects the change in value on (income) loss attributable to NCI in conjunction with the "put" transaction (See Note 12 – Redeemable Noncontrolling Interest for additional information).

(millions)	Components of Changes in Accumulated Other Comprehensive Income (after tax)						
	Pretax total accumulated other comprehensive income (loss)	Total tax (provision) benefit	After tax total accumulated other comprehensive income (loss)	Total net unrealized gains (losses) on securities	Net unrealized gains (losses) on forecasted transactions	Foreign currency translation adjustment	(Income) loss attributable to NCI
Balance at December 31, 2017	\$ 1,977.8	\$ (695.6)	\$ 1,282.2	\$ 1,295.0	\$ (14.8)	\$ 0	\$ 2.0
Cumulative effect adjustment ¹	(2,006.0)	705.8	(1,300.2)	(1,300.2)	0	0	0
Reclassification of disproportionate amounts ²	(4.3)	(3.4)	(7.7)	(1.1)	(3.2)	0	(3.4)
Adjusted balance at December 31, 2017	(32.5)	6.8	(25.7)	(6.3)	(18.0)	0	(1.4)
Other comprehensive income (loss) before reclassifications:							
Investment securities	(352.5)	73.9	(278.6)	(278.6)	0	0	0
Forecasted transactions	0	0	0	0	0	0	0
Foreign currency translation adjustment	0	0	0	0	0	0	0
Loss attributable to noncontrolling interest (NCI)	6.4	(1.4)	5.0	0	0	0	5.0
Total other comprehensive income (loss) before reclassifications	(346.1)	72.5	(273.6)	(278.6)	0	0	5.0
Less: Reclassification adjustment for amounts realized in net income by income statement line item:							
Net impairment losses recognized in earnings	0	0	0	0	0	0	0
Net realized gains (losses) on securities	(44.2)	9.2	(35.0)	(35.0)	0	0	0
Interest expense	(0.7)	0.1	(0.6)	0	(0.6)	0	0
Total reclassification adjustment for amounts realized in net income	(44.9)	9.3	(35.6)	(35.0)	(0.6)	0	0
Total other comprehensive income (loss)	(301.2)	63.2	(238.0)	(243.6)	0.6	0	5.0
Balance at September 30, 2018	\$ (333.7)	\$ 70.0	\$ (263.7)	\$ (249.9)	\$ (17.4)	\$ 0	\$ 3.6

¹Reflects the fair value changes on equity securities as of December 31, 2017, which are reported as realized gains (losses) under the new accounting guidance. See Note 14 – New Accounting Standards for additional information.

²Reflects the effect of the change in the U.S. federal tax rate on our available-for-sale fixed-maturity securities and our hedges on forecasted transactions as of December 31, 2017 (See Note 14 – New Accounting Standards for additional information) and the adjustment to reflect the change in value on (income) loss attributable to NCI in conjunction with the "put" transaction (See Note 12 – Redeemable Noncontrolling Interest for additional information).

(millions)	Components of Changes in Accumulated Other Comprehensive Income (after tax)						
	Pretax total accumulated other comprehensive income (loss)	Total tax (provision) benefit	After tax total accumulated other comprehensive income (loss)	Total net unrealized gains (losses) on securities	Net unrealized gains (losses) on forecasted transactions	Foreign currency translation adjustment	(Income) loss attributable to NCI
Balance at June 30, 2017	\$ 1,774.1	\$(623.4)	\$ 1,150.7	\$ 1,164.6	\$ (15.1)	\$(0.9)	\$ 2.1
Other comprehensive income (loss) before reclassifications:							
Investment securities	122.7	(43.0)	79.7	79.7	0	0	0
Forecasted transactions	0	0	0	0	0	0	0
Foreign currency translation adjustment	0.9	(0.3)	0.6	0	0	0.6	0
Loss attributable to noncontrolling interest (NCI)	(1.1)	0.4	(0.7)	0	0	0	(0.7)
Total other comprehensive income (loss) before reclassifications	122.5	(42.9)	79.6	79.7	0	0.6	(0.7)
Less: Reclassification adjustment for amounts realized in net income by income statement line item:							
Net impairment losses recognized in earnings	(9.3)	3.3	(6.0)	(6.0)	0	0	0
Net realized gains (losses) on securities	15.7	(5.5)	10.2	10.2	0	0	0
Interest expense	(0.2)	0.1	(0.1)	0	(0.1)	0	0
Total reclassification adjustment for amounts realized in net income	6.2	(2.1)	4.1	4.2	(0.1)	0	0
Total other comprehensive income (loss)	116.3	(40.8)	75.5	75.5	0.1	0.6	(0.7)
Balance at September 30, 2017	\$ 1,890.4	\$(664.2)	\$ 1,226.2	\$ 1,240.1	\$ (15.0)	\$(0.3)	\$ 1.4

(millions)	Components of Changes in Accumulated Other Comprehensive Income (after tax)						
	Pretax total accumulated other comprehensive income (loss)	Total tax (provision) benefit	After tax total accumulated other comprehensive income (loss)	Total net unrealized gains (losses) on securities	Net unrealized gains (losses) on forecasted transactions	Foreign currency translation adjustment	(Income) loss attributable to NCI
Balance at December 31, 2016	\$ 1,439.5	\$ (506.1)	\$ 933.4	\$ 939.6	\$ (9.4)	\$ (1.1)	\$ 4.3
Other comprehensive income (loss) before reclassifications:							
Investment securities	554.4	(194.3)	360.1	360.1	0	0	0
Forecasted transactions	(8.0)	2.8	(5.2)	0	(5.2)	0	0
Foreign currency translation adjustment	1.2	(0.4)	0.8	0	0	0.8	0
Loss attributable to noncontrolling interest (NCI)	(4.5)	1.6	(2.9)	0	0	0	(2.9)
Total other comprehensive income (loss) before reclassifications	543.1	(190.3)	352.8	360.1	(5.2)	0.8	(2.9)
Less: Reclassification adjustment for amounts realized in net income by income statement line item:							
Net impairment losses recognized in earnings	(12.9)	4.6	(8.3)	(8.3)	0	0	0
Net realized gains (losses) on securities	104.5	(36.6)	67.9	67.9	0	0	0
Interest expense	0.6	(0.2)	0.4	0	0.4	0	0
Total reclassification adjustment for amounts realized in net income	92.2	(32.2)	60.0	59.6	0.4	0	0
Total other comprehensive income (loss)	450.9	(158.1)	292.8	300.5	(5.6)	0.8	(2.9)
Balance at September 30, 2017	\$ 1,890.4	\$ (664.2)	\$ 1,226.2	\$ 1,240.1	\$ (15.0)	\$ (0.3)	\$ 1.4

In an effort to manage interest rate risk, we often enter into forecasted transactions on Progressive's debt issuances. We expect to reclassify \$1.0 million (pretax) into interest expense during the next 12 months, related to net unrealized losses on forecasted transactions (see Note 4 – Debt for further discussion).

Note 11 Litigation — The Progressive Corporation and/or its insurance subsidiaries are named as defendants in various lawsuits arising out of claims made under insurance policies written by our insurance subsidiaries in the ordinary course of business. We consider all legal actions relating to such claims in establishing our loss and loss adjustment expense reserves. In addition, The Progressive Corporation and/or its subsidiaries are named as defendants in a number of class action or individual lawsuits that challenge certain of the operations of the subsidiaries.

These cases include those alleging damages as a result of our subsidiaries' practices in evaluating or paying medical or injury claims or benefits, including, but not limited to, personal injury protection, medical payments, and bodily injury benefits; the utilization, content, or appearance of policy documents; labor rates paid to auto body repair shops; wage and hour issues; and cases challenging other aspects of our subsidiaries' claims, marketing, or sales practices, or other business operations. Other insurance companies face many of these same issues.

The nature and volume of litigation to which The Progressive Corporation is subject is similar to that which was disclosed in Note 12 – Litigation in our 2017 Annual Report to Shareholders.

We plan to contest the pending lawsuits vigorously, but may pursue settlement negotiations in some cases, if appropriate. The outcomes of pending cases are uncertain at this time. We establish accruals for these lawsuits when it is probable that a loss has been or will be incurred and we can reasonably estimate potential loss exposure, which may include a range of loss. As to lawsuits for which the loss is considered neither probable or estimable, or is considered probable but not estimable, we do not establish an accrual. Nevertheless, we continue to evaluate this pending litigation to determine if any losses not deemed probable and estimable become so, at which point we would establish an accrual at our best estimate of the loss or range of loss.

With respect to our pending lawsuits that are not related to claims under insurance policies, the accruals that we have established, if any, were not material at September 30, 2018 or 2017, and there were no material settlements during the first nine months of 2018 or 2017. For most of these lawsuits, we do not consider any losses to be both probable and estimable, and we are unable to estimate a meaningful range of loss, if any, at this time, due to the factors discussed in Note 12 – Litigation in our 2017 Annual Report to Shareholders. In the event that any one or more of these lawsuits results in a substantial judgment against or settlement by us, or if our accruals (if any) prove to be inadequate by a significant amount, the resulting liability could have a material adverse effect on our consolidated financial condition, cash flows, and/or results of operations. For a further discussion on our pending litigation and related reserving policies, see Note 12 – Litigation in our 2017 Annual Report to Shareholders.

Note 12 Redeemable Noncontrolling Interest — In connection with the April 2015 acquisition of a controlling interest in ARX, The Progressive Corporation entered into a stockholders’ agreement with the other ARX stockholders. As part of the stockholders’ agreement, the minority ARX stockholders had the right to “put” a portion of their ARX shares to Progressive in 2018, and have the right to put all of their remaining shares to Progressive in 2021. During the second quarter 2018, minority ARX stockholders put 204,527 shares, including 5,483 shares that were issued upon the exercise of outstanding stock options. Progressive acquired these additional shares, in a cash transaction, for a total cost of \$295.9 million. If ARX stockholders do not put all of their shares to Progressive in 2021, Progressive has the ability to “call” all of the outstanding shares shortly thereafter and to bring its ownership stake to 100% in 2021. See Note 15 – Redeemable Noncontrolling Interest in our 2017 Annual Report to Shareholders for a discussion of the purchase price for shares to be purchased by Progressive pursuant to these put or call rights. At September 30, 2018, Progressive’s share ownership interest in ARX was 86.8%.

Since these securities are redeemable upon the occurrence of an event that is not solely within the control of Progressive, we have recorded the redeemable noncontrolling interest (NCI) as mezzanine equity on our consolidated balance sheets, which represents the minority shares at the current estimated purchase price pursuant to the put and call provisions of the stockholders’ agreement. The estimated purchase price is based, in part, on the change in tangible net book value of ARX from December 31, 2014 to the balance sheet dates.

In addition to these minority shares, at September 30, 2018, ARX employees held options to purchase 16,067 ARX shares. These options and any shares issued upon exercise are subject to the stockholders’ agreement, including the “put” and “call” rights described above. Until the options are exercised, the underlying obligation of approximately \$23.4 million is not recorded as part of redeemable NCI. See Note 9 – Employee Benefit Plans in our 2017 Annual Report to Shareholders for a discussion of our employee stock options.

The changes in the components of redeemable NCI during the nine months ended September 30, 2018 and 2017, and the year ended December 31, 2017, were:

(millions)	September 30, 2018	September 30, 2017	December 31, 2017
Balance, Beginning of period	\$ 503.7	\$ 483.7	\$ 483.7
Net income attributable to NCI	10.6	1.9	5.9
Other comprehensive income (loss) attributable to NCI ¹	(5.0	) 2.9	2.3
Exercise of employee stock options	9.4	3.4	3.4
Purchase/change of ARX minority shares	(298.2	) 0	0
Change in redemption value of NCI	(3.1	) 6.3	8.4
Balance, End of period	\$ 217.4	\$ 498.2	\$ 503.7

¹Amount represents the other comprehensive income (loss) attributable to NCI, as reflected on the the Consolidated Statements of Comprehensive Income; any reclassification to accumulated other comprehensive income (loss) attributable to NCI due to a change in the minority ownership percentage does not impact the amount of redeemable NCI.

Note 13 Goodwill and Intangible Assets

Goodwill

During the nine months ended September 30, 2018, there were no changes to the carrying amount of goodwill. No accumulated goodwill impairment losses exist.

Intangible Assets

The following table is a summary of the net carrying amount of other intangible assets as of September 30, 2018 and 2017, and December 31, 2017:

(millions)	September 30, 2018	September 30, 2017	December 31, 2017
Intangible assets subject to amortization	\$ 300.2	\$ 372.2	\$ 354.2
Indefinite-lived intangible assets ¹	12.4	12.4	12.4
Total	\$ 312.6	\$ 384.6	\$ 366.6

¹ Indefinite-lived intangible assets are comprised of state insurance and agent licenses. State insurance licenses were previously subject to amortization under superseded accounting guidance and include \$0.6 million of accumulated amortization for all periods presented.

Intangible assets subject to amortization consisted of the following:

Category	September 30, 2018			September 30, 2017			December 31, 2017		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
Policies in force	\$256.2	\$ 128.1	\$ 128.1	\$256.2	\$ 91.5	\$ 164.7	\$256.2	\$ 100.7	\$ 155.5
Agency relationships	159.2	39.8	119.4	159.2	28.4	130.8	159.2	31.3	127.9
Software rights	79.1	37.4	41.7	79.1	26.8	52.3	79.1	29.4	49.7
Trade name	34.8	23.8	11.0	34.8	10.4	24.4	34.8	13.7	21.1
Total	\$529.3	\$ 229.1	\$ 300.2	\$529.3	\$ 157.1	\$ 372.2	\$529.3	\$ 175.1	\$ 354.2

Amortization expense was \$18.0 million and \$54.0 million for the three and nine months ended September 30, 2018, respectively, compared to \$17.2 million and \$48.2 million during the same periods last year.

During the third quarter 2017, we revised our estimate of the economic useful life of our trade name intangible asset from an original life of 10 years to a remaining life of 2 years. The decrease in the useful life represents the estimated length of time that it is expected to transition the branding of our Property products from the ASI trade name to the Progressive brand. As of September 30, 2018, the remaining average life of all of our intangible assets is 4.2 years.

Note 14 New Accounting Standards

Issued

In August 2018, the Financial Accounting Standards Board (FASB) issued an Accounting Standards Update (ASU), which provides additional guidance on the requirements for capitalizing and amortizing implementation costs incurred in a cloud computing arrangement that does not include a software license. This ASU will be effective for fiscal years (including interim periods within those fiscal years) beginning after December 15, 2019 (2020 for calendar-year companies). We do not expect this standard to have a material impact on our financial condition, cash flows, or results of operations.

In August 2018, the FASB issued an ASU, which amends the disclosure requirements for fair value measurements. The ASU requires companies to disclose the changes in unrealized gains and losses for the period included in other comprehensive income for recurring Level 3 fair value measurements held at the end of the reporting period and the range and weighted average of significant unobservable inputs used to develop Level 3 fair value measurements. The ASU also removes current disclosure requirements for the amount of and reasons for transfers between Level 1 and Level 2 of the fair value hierarchy, the policy for timing of transfers between levels, and the valuation processes for Level 3 fair value measurements. The ASU is effective for fiscal years beginning after December 15, 2019, and should be applied prospectively for the additions to the disclosure requirements and applied retrospectively to all periods

presented for all other amendments. Early adoption of this ASU is permitted, including the ability to early adopt the removal of current disclosures while delaying the adoption of new disclosures until the effective date. We do not expect this standard to have an impact on our financial condition, cash flows, or results of operations.

In July 2018, the FASB issued an ASU, which provides targeted improvements to the new lease accounting guidance issued by the FASB in February 2016. The ASU, which eliminates the off-balance-sheet accounting for leases, will require lessees to report their operating leases as both an asset and liability on the statement of financial position and to disclose key information about leasing arrangements in the financial statement footnotes. Under the ASU, there will be no change to the recognition of lease expense in our results of operations. The ASU will be effective for fiscal years (including interim periods within those fiscal years) beginning after December 15, 2018 (2019 for calendar-year companies). Under the ASU, companies will have the option to apply the new lease requirements either as of the effective date (i.e., January 1, 2019), with comparative information presented in accordance with the previous standard, or on a modified retrospective basis, which would restate all financial statement information as of the beginning of the earliest period presented. Based on our lease portfolio at September 30, 2018, and in accordance with the accounting elections available in the ASU, we would have recorded an increase to assets and liabilities of approximately \$160 million, and there would have been no impact on our results of operations or cash flows. Therefore, we do not expect this standard to have a material impact on our financial condition.

In March 2017, the FASB issued an ASU related to premium amortization on purchased callable debt securities. The intent of the standard is to shorten the amortization period for certain purchased callable debt securities held at a premium. Under the ASU, the premium is required to be amortized to the earliest call date. The ASU more closely aligns interest income recorded on bonds held at a premium with the economics of the underlying instrument. The ASU, which is required to be applied on a modified retrospective basis, is effective for fiscal years beginning after December 15, 2018 (2019 for calendar-year companies), and interim periods within those fiscal years. Since we have historically used a yield-to-worst scenario for our securities that were purchased at a premium, and the first call on a premium security most often produces the lowest and most conservative yield, we do not expect this standard to have a significant impact on our financial condition, cash flows, or results of operations.

In January 2017, the FASB issued an ASU, which eliminates the requirement to determine the implied fair value of goodwill in measuring an impairment loss. Upon adoption, the measurement of a goodwill impairment will represent the excess of the reporting unit's carrying value over fair value, limited to the carrying value of goodwill. This ASU is effective for goodwill impairment tests in fiscal years beginning after December 15, 2019 (2020 for calendar-year companies), with early adoption permitted. We do not expect this standard to have a material impact on our financial position or results of operations.

In June 2016, the FASB issued an ASU intended to improve the timing, and enhance the accounting and disclosure, of credit losses on financial assets. Additionally, this update will modify the existing accounting guidance related to the impairment evaluation for available-for-sale debt securities and will result in the creation of an allowance for credit losses as a contra asset account. The ASU will require cumulative-effect changes to retained earnings in the period of adoption, if any occur, and will also require prospective changes on previously recorded impairments. This ASU is effective for fiscal years (including interim periods within those fiscal years) beginning after December 15, 2019 (2020 for calendar-year companies), with early adoption permissible (including interim periods within that fiscal year) beginning after December 15, 2018 (2019 for calendar-year companies). While the ASU creates additional accounting complexities related to the recognition of the impairment losses, and subsequent recoveries, through an allowance for credit losses account, we do not expect the ASU to have a material impact on our current method of evaluating securities for credit losses or the timing or recognition of the amounts of the impairment losses.

Adopted

On January 1, 2018, we adopted the ASU intended to improve the recognition and measurement of financial instruments. Under this update, the changes in fair value of equity securities are recognized as a component of net income. Upon adoption, we recorded a cumulative-effect adjustment of \$1.3 billion, which is net of taxes. The cumulative-effect adjustment represents the amount of after-tax net unrealized gains on equity securities that was recorded as part of accumulated other comprehensive income at December 31, 2017. The adoption of this ASU had no impact on comprehensive income. Consistent with our historical presentation, cash flows on equity securities will be reflected as investing activities in the Consolidated Statements of Cash Flows.

In the first quarter 2018, we adopted the ASU related to the reclassification of certain tax effects from accumulated other comprehensive income. This update provided companies with the option to reclassify disproportionate tax effects in accumulated other comprehensive income caused by the legislation commonly known as the Tax Cuts and Jobs Act of 2017 to retained earnings. We opted to make the reclassification, which resulted in a decrease to accumulated other comprehensive income and an offsetting increase to retained earnings of \$4.3 million. This reclass was solely due to the effect of the change in the U.S. federal tax rate on our available-for-sale fixed-maturity securities and our hedges on forecasted transactions. There were no disproportionate tax effects related to our equity securities subsequent to adopting the ASU related to classification and measurement discussed above.

Note 15 Reclassification — For the three and nine months ended September 30, 2017, we reclassified the change in the net holding period gains (losses) on hybrid securities held at September 30, 2017 to “net holding period gains (losses) on securities” out of “net realized gains (losses) on security sales” to conform with the current-year Consolidated Statements of Comprehensive Income presentation. There was no overall impact on total net realized gains (losses) on securities. We also reclassified the classification and presentation of restricted cash in our Consolidated Statements of Cash Flows in accordance with the accounting guidance we adopted for the year ended December 31, 2017 relating to this item; there was no overall impact on the increase in cash, cash equivalents, and restricted cash as a result of this reclassification. In addition, on our Consolidated Balance Sheets for December 31, 2017, we reclassified our “dividends payable” into “accounts payable, accrued expenses, and other liabilities” to be consistent with the current period presentation.

Note 16 Subsequent Event — On October 18, 2018, we issued \$550.0 million of 4.00% Senior Notes due 2029 (the “4.00% Senior Notes”) in an underwritten public offering. We received net proceeds, which will be used for general corporate purposes, of about \$544.5 million, after deducting underwriters’ discounts, commissions, and other issuance costs.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

I. OVERVIEW

The Progressive Corporation's insurance subsidiaries recognized strong growth in both premiums and policies in force in the third quarter 2018, compared to the same period last year. During the quarter, we generated \$8.6 billion of net premiums written, 20% more than the third quarter last year, and crossed over \$30 billion of net premiums written on a trailing 12-month basis. On a quarter-over-prior-year-quarter basis, net premiums earned increased 21%. We ended September 2018 with over 20 million companywide policies in force, a 13% increase over the same period last year. On a year-over-year basis for the third quarter, both net income and comprehensive income attributable to Progressive increased substantially. We produced an underwriting margin of 9.7%, which is 7.1 points better than the third quarter last year, primarily reflecting a decrease in year-over-year catastrophe losses. The remainder of the underwriting profit increase reflects an increase in average written premium per policy and a decrease in our auto claims frequency compared to 2017. Net income also benefited from the change in the statutory federal income tax rate to 21% from 35% last year.

For the third quarter 2018, comprehensive income included a decrease in the value of our investment portfolio, compared to an increase in the portfolio valuation during the same period last year. Due to a change in accounting guidance, as of January 1, 2018, the change in value of our equity securities is reported as a component of net income, instead of being a component of other comprehensive income, while the change in value of fixed-maturity securities remains part of other comprehensive income. This accounting change may cause more volatility in net income based on equity market conditions. Therefore, comprehensive income may be a more beneficial measure of our overall performance.

During the third quarter 2018, our total capital (debt plus shareholders' equity) increased \$0.9 billion, to \$15.7 billion, primarily reflecting income during the quarter.

A. Insurance Operations

Our Personal and Commercial Lines operating segments were profitable during the third quarter 2018, while our Property business generated an underwriting loss. All three segments contributed to our solid premium and policies in force growth on a year-over-year basis.

Our Personal Lines and Commercial Lines underwriting profit margins in the third quarter were 10.0% and 12.0%, respectively, while the Property business had an underwriting loss margin of 2.3%, which included 9.5 points of catastrophe losses, as well as 5.4 points of amortization expense, predominately related to our acquisition of a controlling interest of ARX Holding Corp. (ARX) in 2015. Our special lines products, which are typically used more during the summer months, had an unfavorable impact on our total Personal Lines combined ratio of 0.8 points and 2.7 points for the third quarter 2018 and 2017, respectively. In addition to the normal seasonality, in 2017, the special lines products results were significantly affected by hurricane losses.

On a quarter-over-prior-year-quarter basis, our catastrophe losses decreased 70%, or 5.0 points, primarily attributable to the significant losses incurred in 2017 related to Hurricanes Harvey and Irma. In the third quarter 2018, we incurred catastrophe losses of \$127.2 million, compared to \$431.1 million in the same period last year. On October 10, 2018, Hurricane Michael, a category 4 hurricane, made landfall in the Florida Panhandle and over the next few days also impacted several other states. We currently estimate that our vehicle businesses will incur losses of approximately \$60 million in connection with this storm. We based these estimates on claims reporting information, our experience with severity and reporting patterns from many past storms, and several assumptions, including mix of claims. Reporting patterns, mix, and other assumptions (including those related to salvage) will likely differ from our expectations. Although it is too early to estimate the impact of Hurricane Michael on our Property business, we expect that our net losses and loss adjustment expenses will not exceed \$60 million, which represents the retention level under our Property catastrophic reinsurance coverage.

For the quarter, our companywide prior accident years development had a 0.4 point favorable impact, compared to a 0.5 point favorable impact in the third quarter 2017. Our overall incurred personal auto frequency was down around 2.6%, while severity was up about 6.0%. While we largely priced for the increase in severity, we were not anticipating the magnitude of the continued decrease in frequency, which contributed to our underwriting profitability in the

quarter.

Our companywide net premiums written grew 20%, with Personal Lines growing 18%, Commercial Lines 31%, and Property 32%, reflecting both an increase in rate and volume. During the quarter, on a year-over-year basis, our written premium per policy for our personal auto businesses increased about 4%, primarily reflecting a shift in the mix of business toward higher premium coverages and the rate increases taken during the last 12 months. Written premium per policy increased 4% for our special lines products and increased 15% for our Commercial Lines business. The Commercial Lines increase reflects shifts in our mix of businesses to higher premium products, as well as rate actions taken throughout 2017. The total written premium per policy for the Property business decreased 3%, reflecting the renters business, which has lower premiums per policy,

34

comprising a greater proportion of the total Property business. For our core Property business (e.g., home and condo insurance), the written premium per policy increased slightly. We continue to increase rate levels in our Property business to help meet our profitability targets in this segment, while much of our previous rate increases have yet to be earned in.

During the third quarter, total new personal auto applications (i.e., issued policies) increased 19% on a year-over-year basis, including a 12% and 26% increase in our Agency auto and Direct auto businesses, respectively. The significant increase in Direct auto applications reflects, in part, increased advertising spend during the quarter, as well as competitive product offerings and position in the marketplace. We will continue to spend on marketing when we believe that it is an efficient use of our dollars. We continued to generate strong new business application growth in our bundled auto and home customers (i.e., Robinsons) in both the Agency and Direct channels. New applications for our special lines products were up 5% during the third quarter 2018, compared to the same period last year.

For the Commercial Lines business, new applications increased 10% on a year-over-year basis during the third quarter 2018. The majority of the underwriting restrictions that were previously implemented were lifted during the second quarter 2018. We will continue to monitor our rate levels with a view toward continuing to manage profitably while providing high-quality customer service.

The Property business had a 51% increase in new applications for the third quarter 2018, compared to the same period last year, with strong growth in both the agency and direct channels. Our home/condo products grew about 34%, while the balance was due to an increase in our renters, umbrella, and manufactured home products. We have increased our state footprint since the third quarter last year for both the homeowners and renters products.

We ended the third quarter 2018 with over 20 million companywide policies in force, which included 13.1 million personal auto policies in force. Our Personal Lines policies in force grew 11%, or 1.7 million policies, over the same period last year, with Agent auto and Direct auto growing 13% and 17%, respectively, and our special lines products policies in force growing 1%. Our Commercial Lines business policies in force grew 8%, or 53,300 policies, and the Property business grew 36%, or 491,400 policies.

To grow policies in force, it is critical that we retain our customers for longer periods. Consequently, increasing retention is one of our most important priorities. Our efforts to increase our share of multi-product households continue to be a key initiative to support that goal. Policy life expectancy, which is our actuarial estimate of the average length of time that a policy will remain in force before cancellation or lapse in coverage, is our primary measure of customer retention in our vehicle businesses. Our trailing 12-month total auto policy life expectancy increased 7% over the third quarter last year, while our trailing 3-month total auto policy life expectancy was flat. Our Agency auto and Direct auto trailing 12-month policy life expectancy were up 8% and 5%, respectively, and special lines decreased 2%. The increases in our 12-month policy life expectancy for our auto businesses reflect the competitive markets as well as our Destination Era initiatives, where we have experienced an increase in customers who bundle their auto coverage with other products, which tends to translate to longer relationships with these customers. We are also continuing to make investments to improve the customer experience in an effort to lengthen retention. For Commercial Lines, our policy life expectancy increased 2% year over year.

B. Investments

The fair value of our investment portfolio was \$32.4 billion at September 30, 2018. Our asset allocation strategy is to maintain 0%-25% of our portfolio in Group I securities, with the balance (75%-100%) of our portfolio in Group II securities (the securities allocated to Group I and II are defined below under Results of Operations – Investments). At September 30, 2018, 15% of our portfolio was allocated to Group I securities and 85% to Group II securities, compared to 17% and 83%, respectively, at December 31, 2017.

Our recurring investment income generated a pretax book yield of 2.9% for the third quarter 2018, compared to 2.3% for the same period in 2017. Our investment portfolio produced a fully taxable equivalent (FTE) total return of 1.2% for the third quarter 2018, compared to 1.1% for the same period in 2017. Our fixed-income and common stock portfolios had FTE total returns of 0.5% and 7.4%, respectively, for the third quarter 2018, compared to 0.7% and 4.3%, respectively, last year.

At September 30, 2018, the fixed-income portfolio had a weighted average credit quality of AA- and a duration of 2.6 years, compared to AA- and 2.5 years, respectively, at December 31, 2017. We lengthened our portfolio duration modestly during the year in response to higher interest rates as the risk/reward to our portfolio's value at higher rate levels moved toward a more balanced position. However, our duration remains below the mid-point of our range as a means to limit a decline in portfolio value from a significant increase in rates from current levels.

II. FINANCIAL CONDITION

A. Liquidity and Capital Resources

Progressive's insurance operations create liquidity by collecting and investing premiums from new and renewal business in advance of paying claims. Operations generated positive cash flows of about \$5.2 billion and \$3.2 billion for the first nine months of 2018 and 2017, respectively, as premiums collected increased at a faster rate than paid losses.

Our total capital (debt plus shareholders' equity) was \$15.7 billion, at book value, at September 30, 2018, compared to \$12.6 billion at September 30, 2017 and December 31, 2017. The increase since year end reflects the increase in comprehensive income during that period as well as the issuance of \$600 million of 4.20% Senior Notes due 2048 and \$500 million of Series B Fixed-to-Floating Rate Cumulative Perpetual Serial Preferred Shares (the "Series B Preferred Shares"), in underwritten public offerings during the first quarter 2018.

Our debt-to-total capital ratio remained below 30% during all reported periods, consistent with our financial policy. This ratio, which reflects debt as a percent of debt plus shareholders' equity and excludes redeemable noncontrolling interest, was 24.6% at September 30, 2018, 26.3% at both September 30, 2017, and December 31, 2017.

Based on premium growth and regulatory and other capital needs, our results and current market conditions, we recently decided to raise additional capital to increase our capital flexibility. On October 18, 2018, we issued \$550.0 million of our 4.00% Senior Notes due 2029 in an underwritten public offering. Net proceeds, after deducting underwriters' discounts and commissions and other expenses related to the issuance, were approximately \$544.5 million, and these funds have been added to our investment portfolios. Our debt-to-total capital ratio at September 30, 2018, would have been 27.1% had this new debt issuance been outstanding at that time.

During the year, we deployed capital through share repurchases, dividends, and repayment of ARX debt. During the third quarter and first nine months of 2018, we spent \$39.3 million and \$78.7 million, respectively, to repurchase 661,196 and 1,363,451 common shares, primarily pursuant to our equity compensation plans. During the third quarter, we declared and paid \$13.5 million of dividends on our Series B Preferred Shares. Although no dividends were declared on our common shares during the first nine months of 2018, in February, we paid \$654.9 million of common share dividends, which were declared in December 2017. Also, during the first quarter 2018, ARX repaid in full its term loans in the aggregate principal amount of \$37.1 million. At September 30, 2018, ARX has no external borrowings outstanding.

During the second quarter 2018, in accordance with our stockholders' agreement related to the ARX acquisition, The Progressive Corporation increased its share ownership of ARX when minority ARX stockholders sold 204,527 shares to Progressive, at a total cost of \$295.9 million. As of September 30, 2018, Progressive owns 86.8% of ARX. The Progressive Corporation has the ability to achieve 100% ownership of ARX by the end of the second quarter of 2021. See Note 12 - Redeemable Noncontrolling Interest for further discussion.

We seek to deploy capital in a prudent manner and use multiple data sources and modeling tools to estimate the frequency, severity, and correlation of identified exposures, including, but not limited to, catastrophic and other insured losses, natural disasters, and other significant business interruptions, to estimate our potential capital needs. During the first nine months of 2018 and at all times during 2017, our total capital exceeded the sum of our regulatory capital layer plus our self-constructed extreme contingency layer, as described in our Annual Report to Shareholders for the year ended December 31, 2017. Based upon our capital planning and forecasting efforts, we believe that we have sufficient capital resources and cash flows from operations to support our current business, scheduled principal and interest payments on our debt, dividends on our Series B Preferred Shares, our contractual obligations, and other expected capital requirements for the foreseeable future.

We have an unsecured discretionary line of credit (the "Line of Credit") with PNC Bank, National Association, in the maximum principal amount of \$250 million, which will expire on April 30, 2019. We did not engage in short-term borrowings, including any borrowings under our discretionary Line of Credit, to fund our operations or for liquidity purposes during the reported periods.

B. Commitments and Contingencies

Contractual Obligations

During the first nine months of 2018, our contractual obligations have not changed materially from those discussed in our Annual Report on Form 10-K for the year ended December 31, 2017, other than the debt and preferred share issuance transactions described above.

Off-Balance-Sheet Arrangements

Our off-balance-sheet leverage includes operating leases and purchase obligations. There have been no material changes in the off-balance-sheet items since the discussion in the notes to the financial statements in Progressive's Annual Report on Form 10-K for the year ended December 31, 2017.

III. RESULTS OF OPERATIONS – UNDERWRITING

A. Segment Overview

We report our underwriting operations in three segments: Personal Lines, Commercial Lines, and Property. As a component of our Personal Lines segment, we report our Agency and Direct business results to provide further understanding of our products by distribution channel. Our other indemnity businesses include our run-off businesses. The following table shows the composition of our companywide net premiums written, by segment, for the respective periods:

	Three Months Ended September 30, 2018		Nine months ended September 30, 2017	
Personal Lines				
Agency	41 %	42 %	41 %	43 %
Direct	42	42	42	42
Total Personal Lines ¹	83	84	83	85
Commercial Lines	12	12	12	11
Property	5	4	5	4
Total underwriting operations	100 %	100 %	100 %	100 %

¹ Personal auto insurance accounted for 93% of the total Personal Lines segment net premiums written during the three and nine months ended September 30, 2018, and 93% and 92%, respectively, for the same periods in 2017; insurance for our special lines products accounted for the balance.

Our Personal Lines business writes insurance for personal autos and special lines products (e.g., motorcycles, watercraft, and RVs). We currently write our Personal Lines products in all 50 states. We also offer our personal auto product (not special lines products) in the District of Columbia. Our personal auto policies are primarily written for 6-month terms, while the special lines products are written for 12-month terms.

Our Commercial Lines business writes primary liability, physical damage, and other auto-related insurance for automobiles and trucks owned and/or operated predominantly by small businesses. The majority of our Commercial Lines business is written through the independent agency channel. The amount of business written through the direct channel continues to grow and represented about 12% of premiums written for the first nine months of 2018. We write Commercial Lines business in all 50 states and the majority of our policies are written for 12-month terms.

Our Property business writes residential property insurance (single family homes, condominium unit owners, rental coverage, etc.) for homeowners, other property owners, and renters. Our Property business primarily consists of the operations of the ARX organization. ARX wholly owns or controls the insurance companies that we refer to in the aggregate as “ASI.” We write the majority of our Property business through the independent agency channel; however, we continue to expand the distribution of our Property product offerings in the direct channel. Property policies are written for a 12-month term. ASI writes residential property in 43 states and the District of Columbia. ASI also writes flood insurance in 44 states and the District of Columbia, and ASI and Progressive write renters insurance in 44 states and the District of Columbia. Florida and Texas remain the largest states for the Property business comprising just over 40% of the year-to-date premium volume. We continue to transition ASI products from the ASI trade name to the Progressive brand. We expect to complete the transition in both our agency and direct channels over the next year.

B. Profitability

Profitability for our underwriting operations is defined by pretax underwriting profit, which is calculated as net premiums earned plus fees and other revenues less losses and loss adjustment expenses, policy acquisition costs, and other underwriting expenses. We also use underwriting margin, which is underwriting profit or loss expressed as a percentage of net premiums earned, to analyze our results. For the respective periods, our underwriting profitability results were as follows:

(\$ in millions)	Three Months Ended September 30,			Nine Months Ended September 30,				
	2018		2017		2018		2017	
	Underwriting Profit (Loss)	Margin	Underwriting Profit (Loss)	Margin	Underwriting Profit (Loss)	Margin	Underwriting Profit (Loss)	Margin
Personal Lines								
Agency	\$372.2	11.2 %	\$69.5	2.4 %	\$1,142.2	11.9 %	\$524.7	6.4 %
Direct	294.4	8.8	128.7	4.7	880.3	9.2	466.7	5.9
Total Personal Lines	666.6	10.0	198.2	3.6	2,022.5	10.5	991.4	6.1
Commercial Lines	112.7	12.0	42.8	6.0	307.8	11.7	166.4	8.2
Property ¹	(7.8)	(2.3)	(69.0)	(27.0)	(31.2)	(3.3)	(57.5)	(8.0)
Other indemnity ²	(0.1)	NM	0	NM	0.1	NM	(0.3)	NM
Total underwriting operations	\$771.4	9.7 %	\$172.0	2.6 %	\$2,299.2	10.1 %	\$1,100.0	5.8 %

¹ For the three and nine months ended September 30, 2018, amounts include \$18.0 million and \$54.0 million, respectively, of amortization expense predominately associated with the acquisition of a controlling interest in ARX, and \$17.2 million and \$48.2 million for the respective periods last year. The increase in amortization expense reflects a change in the economic useful life of the trade name intangible asset; see Note 13 – Goodwill and Intangible Assets for further discussion.

² Underwriting margins for our other indemnity businesses are not meaningful (NM) due to the lack of premiums earned by, and the variability of loss costs in, such businesses.

Our underwriting profit margin increased in both the third quarter and first nine months of 2018, compared to the same periods last year. The increase in the profit margin was primarily due to lower catastrophe losses in 2018, compared to 2017. In addition, higher written premium per policy on both our personal and commercial auto products and lower than anticipated frequency contributed to the improved profitability.

Further underwriting results for our Personal Lines business, including results by distribution channel, the Commercial Lines business, the Property business, and our underwriting operations in total, were as follows:

	Three Months Ended			Nine Months Ended		
	September 30,			September 30,		
	2018	2017	Change	2018	2017	Change
Underwriting Performance ¹						
Personal Lines—Agency						
Loss & loss adjustment expense ratio	69.5	78.3	(8.8) pts.	68.8	74.1	(5.3) pts.
Underwriting expense ratio	19.3	19.3	0 pts.	19.3	19.5	(0.2) pts.
Combined ratio	88.8	97.6	(8.8) pts.	88.1	93.6	(5.5) pts.
Personal Lines—Direct						
Loss & loss adjustment expense ratio	70.4	75.7	(5.3) pts.	70.3	74.4	(4.1) pts.
Underwriting expense ratio	20.8	19.6	1.2 pts.	20.5	19.7	0.8 pts.
Combined ratio	91.2	95.3	(4.1) pts.	90.8	94.1	(3.3) pts.
Total Personal Lines						
Loss & loss adjustment expense ratio	69.9	76.9	(7.0) pts.	69.6	74.3	(4.7) pts.
Underwriting expense ratio	20.1	19.5	0.6 pts.	19.9	19.6	0.3 pts.
Combined ratio	90.0	96.4	(6.4) pts.	89.5	93.9	(4.4) pts.
Commercial Lines						
Loss & loss adjustment expense ratio	67.6	72.2	(4.6) pts.	67.9	69.8	(1.9) pts.
Underwriting expense ratio	20.4	21.8	(1.4) pts.	20.4	22.0	(1.6) pts.
Combined ratio	88.0	94.0	(6.0) pts.	88.3	91.8	(3.5) pts.
Property						
Loss & loss adjustment expense ratio	69.8	95.0	(25.2) pts.	68.6	73.4	(4.8) pts.
Underwriting expense ratio ²	32.5	32.0	0.5 pts.	34.7	34.6	0.1 pts.
Combined ratio ²	102.3	127.0	(24.7) pts.	103.3	108.0	(4.7) pts.
Total Underwriting Operations ³						
Loss & loss adjustment expense ratio	69.7	77.2	(7.5) pts.	69.4	73.8	(4.4) pts.
Underwriting expense ratio	20.6	20.2	0.4 pts.	20.5	20.4	0.1 pts.
Combined ratio	90.3	97.4	(7.1) pts.	89.9	94.2	(4.3) pts.
Accident year loss & loss adjustment expense ratio ⁴	70.1	77.7	(7.6) pts.	69.2	73.6	(4.4) pts.

¹ Ratios are expressed as a percentage of net premiums earned; fees and other revenues are netted with underwriting expenses in the ratio calculations.

² Included in the three and nine months ended September 30, 2018 are 5.4 points and 5.8 points, respectively, of amortization expense predominately associated with our acquisition of a controlling interest in ARX, and 6.7 points for both respective periods last year. Excluding these additional expenses, for the three months ended September 30, 2018 and 2017, the Property business would have reported expense ratios of 27.1 and 25.3, respectively, and combined ratios of 96.9 and 120.3. For the nine months ended September 30, 2018 and 2017, excluding these additional expenses, the Property business would have reported expense ratios of 28.9 and 27.9, respectively, and combined ratios of 97.5 and 101.3.

³ Combined ratios for the other indemnity businesses are not presented separately due to the low level of premiums earned by, and the variability of loss costs in, such businesses.

⁴ The accident year ratios include only the losses that occurred during the period noted. As a result, accident period results will change over time, either favorably or unfavorably, as we revise our estimates of loss costs when payments are made or reserves for that accident period are reviewed.

Losses and Loss Adjustment Expenses (LAE)

(millions)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
Change in net loss and LAE reserves	\$466.7	\$616.1	\$1,327.6	\$1,161.6
Paid losses and LAE	5,056.4	4,434.4	14,441.6	12,767.2
Total incurred losses and LAE	\$5,523.1	\$5,050.5	\$15,769.2	\$13,928.8

Claims costs, our most significant expense, represent payments made, and estimated future payments to be made, to or on behalf of our policyholders, including expenses needed to adjust or settle claims. Claims costs are a function of loss severity and frequency and, for our vehicle businesses, are influenced by inflation and driving patterns, among other factors, some of which are discussed below. In our Property business, severity is primarily a function of construction costs and the age of the structure. Accordingly, anticipated changes in these factors are taken into account when we establish premium rates and loss reserves. Loss reserves are estimates of future costs and our reserves are adjusted as underlying assumptions change and information develops.

Our total loss and LAE ratio decreased 7.5 points for the third quarter 2018, compared to the third quarter 2017, and 4.4 points on a year-to-date basis, due to lower catastrophe losses, higher average premiums, lower auto frequency, and concerted expense management.

The following table shows our consolidated catastrophe losses, excluding loss adjustment expenses, incurred during the periods:

(\$ in millions)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
Vehicle businesses	\$95.4	\$334.2	\$245.8	\$557.6
Property business, net of reinsurance (excluding ASL)	28.8	81.2	176.2	306.3
Reinsurance (recoverable)/reversal on ASL ¹	3.0	15.7	(39.0)	(86.2)
Property business, net	31.8	96.9	137.2	220.1
Total net catastrophe losses incurred	\$127.2	\$431.1	\$383.0	\$777.7
Increase to combined ratio	1.6	pts. 6.6	pts. 1.7	pts. 4.1

¹ Represents the reinsurance recoverable recorded on the losses under our aggregate stop-loss agreements (ASL); see table below for further information.

In the third quarter 2018, about 40% of the catastrophe losses were due to wind and hail storms and flooding in Texas and Colorado, and about 20% of the catastrophe losses were due to Hurricane Florence. The significant catastrophe losses during the third quarter 2017 were primarily due to Hurricane Harvey in Texas and Hurricane Irma, primarily in Florida. We have responded, and will continue to respond, promptly to catastrophic events when they occur in order to provide exemplary claims service to our customers.

We do not have catastrophe-specific reinsurance for our vehicle businesses. We reinsure most of our Property business against various risks, including, but not limited to, catastrophic losses through excess of loss reinsurance and an aggregate stop-loss agreement.

The table above reports the reinsurance recoverables under our aggregate stop-loss agreements related to 2018 losses and development on 2017 losses. The aggregate stop-loss agreement for 2018 covers all accident year losses and allocated loss adjustment expenses (ALAE) that occur during 2018, except those from named storms and liability claims, and provides \$200 million of coverage if ASI's applicable loss and ALAE ratio for the full accident year were to exceed 63%. The aggregate stop-loss agreement for 2017 had substantially the same terms as the 2018 agreement. The following table shows the total reinsurance recoverables activity during 2018 and 2017, under the aggregate stop-loss agreement by accident year:

(\$ in millions)	Three Months Ended		Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Reinsurance recoverables on losses				
2018	\$ (3.6)	\$ —	\$ 34.1	\$ —
2017	0.6	(15.7)	4.9	86.2
Total	(3.0)	(15.7)	39.0	86.2
Reinsurance recoverables on ALAE				
2018	0.9	—	5.0	—
2017	1.8	(1.7)	2.3	9.3
Total	2.7	(1.7)	7.3	9.3
Total reinsurance recoverables				
2018	(2.7)	—	39.1	—
2017	2.4	(17.4)	7.2	95.5
Total	\$(0.3)	\$(17.4)	\$46.3	\$95.5

During the second quarter 2018, we renewed about 40% of our catastrophe reinsurance coverage under similar terms as the prior coverage; the remainder is covered by multi-year contracts that are still in effect. Upon renewal, however, we increased our retention threshold for losses and LAE from a single catastrophic event to \$60 million, compared to the \$50 million retention level under the prior agreement. We believe that this increased retention level is appropriate given our growth in both premiums and regulatory capital.

The following discussion of our severity and frequency trends in our personal auto businesses excludes comprehensive coverage because of its inherent volatility, as it is typically linked to catastrophic losses generally resulting from adverse weather. Comprehensive coverage insures against damage to a customer's vehicle due to various causes other than collision, such as windstorm, hail, theft, falling objects, and glass breakage.

Total personal auto incurred severity (i.e., average cost per claim, including both paid losses and the change in case reserves) on a calendar-year basis increased about 6% and 4% for the three and nine months ended September 30, 2018, respectively, compared to the same periods last year. Following are the changes we experienced in severity in our auto coverages on a year-over-year basis:

Collision increased about 9% and 8% for the third quarter and first nine months of 2018, respectively, in part due to an increase in the severity and frequency of total loss claims and higher costs to repair newer vehicles.

Bodily injury increased about 3% for both periods presented.

Auto property damage increased about 5% and 3% for the third quarter and first nine months of 2018, respectively.

Personal injury protection (PIP) increased about 12% and 1% for the third quarter and the first nine months of 2018, respectively. The increase during the quarter is primarily due to the timing of adjuster set reserves and the volatile nature of PIP.

It is a challenge to estimate future severity, especially for bodily injury and PIP claims, but we continue to monitor changes in the underlying costs, such as medical costs, health care reform, and jury verdicts, along with regulatory changes and other factors that may affect severity.

Our incurred frequency of auto accidents, on a calendar-year basis, decreased about 3% and 2% for the three and nine months ended September 30, 2018, respectively, compared to the same periods last year. Following are our frequency changes by coverage on a year-over-year basis:

PIP, auto property damage, and bodily injury decreased about 1% to 3% for both periods presented.

Collision decreased about 4% and 2% for the third quarter and the first nine months of 2018, respectively.

We closely monitor the changes in frequency, but the degree or direction of near-term frequency change is not something that we are able to predict with any certainty. We analyze trends to distinguish changes in our experience from external factors, such as changes in the number of vehicles per household, miles driven, gasoline prices, advances in vehicle safety, and unemployment rates, versus those resulting from shifts in the mix of our business, to allow us to reserve more accurately for our loss exposures.

The table below presents the actuarial adjustments implemented and the loss reserve development experienced in the following periods on a companywide basis:

(\$ in millions)	Three Months Ended		Nine Months Ended	
	September 30, 2018	2017	September 30, 2018	2017
ACTUARIAL ADJUSTMENTS				
Reserve decrease (increase)				
Prior accident years	\$2.1	\$21.9	\$1.3	\$92.8
Current accident year	2.1	3.0	16.0	(13.4)
Calendar year actuarial adjustment	\$4.2	\$24.9	\$17.3	\$79.4
PRIOR ACCIDENT YEARS DEVELOPMENT				
Favorable (unfavorable)				
Actuarial adjustment	\$2.1	\$21.9	\$1.3	\$92.8
All other development	32.4	9.8	(48.3)	(135.3)
Total development	\$34.5	\$31.7	\$(47.0)	\$(42.5)
(Increase) decrease to calendar year combined ratio	0.4	pts. 0.5	pts. (0.2)	pts. (0.2)

Total development consists of both actuarial adjustments and “all other development.” The actuarial adjustments represent the net changes made by our actuarial staff to both current and prior accident year reserves based on regularly scheduled reviews. Through these reviews, our actuaries identify and measure variances in the projected frequency and severity trends, which allow them to adjust the reserves to reflect the current cost trends. For our Property business, 100% of the outstanding reserves are reviewed monthly and, as such, include any development on catastrophe losses as part of the actuarial adjustments. For the vehicle businesses, only a subset of our reserves is reviewed monthly as part of the actuarial adjustment process. Development for catastrophe losses for the vehicle businesses would be reflected in “all other development,” discussed below, to the extent they related to prior year reserves. We report these actuarial adjustments separately for the current and prior accident years to reflect these adjustments as part of the total prior accident years development.

“All other development” represents claims settling for more or less than reserved, emergence of unrecorded claims at rates different than anticipated in our incurred but not recorded (IBNR) reserves, and changes in reserve estimates on specific claims. Although we believe the development from both the actuarial adjustments and “all other development” generally results from the same factors, we are unable to quantify the portion of the reserve development that might be applicable to any one or more of those underlying factors.

Our objective is to establish case and IBNR reserves that are adequate to cover all loss costs, while incurring minimal variation from the date that the reserves are initially established until the losses are fully developed. See Note 6 – Loss and Loss Adjustment Expense Reserves, for a more detailed discussion of our prior accident years development. We continue to focus on our loss reserve analysis, attempting to enhance accuracy and to further our understanding of our loss costs.

Underwriting Expenses

Progressive’s underwriting expenses increased 24% for the third quarter and 22% for the first nine months of 2018, compared to the same periods last year. Nevertheless, the underwriting expense ratio (i.e., policy acquisition costs and other underwriting expenses, net of fees and other revenues, expressed as a percentage of net premiums earned) was only 0.4 points and 0.1 points higher, respectively, for the three and nine months ended September 30, 2018, in part reflecting the increase in earned premium per policy we realized during the same periods. The increase in advertising spend was the primary driver of the increase in total underwriting expenses. During the third quarter and first nine

months of 2018, our advertising expenditures increased 45% and 44%, respectively, compared to the same periods last year. We will continue to invest in advertising as long as we generate sales at a cost below the maximum amount we are willing to spend to acquire a new customer.

C. Growth

For our underwriting operations, we analyze growth in terms of both premiums and policies. Net premiums written represent the premiums from policies written during the period, less any premiums ceded to reinsurers. Net premiums earned, which are a function of the premiums written in the current and prior periods, are earned as revenue over the life of the policy using a daily earnings convention. Policies in force, our preferred measure of growth since it removes the variability due to rate changes or mix shifts, represents all policies under which coverage was in effect as of the end of the period specified.

(\$ in millions)	Three Months Ended September 30,			Nine Months Ended September 30,		
	2018	2017	% Growth	2018	2017	% Growth
NET PREMIUMS WRITTEN						
Personal Lines						
Agency	\$3,504.3	\$3,028.8	16 %	\$10,224.2	\$8,765.9	17 %
Direct	3,618.2	2,987.2	21	10,296.0	8,461.5	22
Total Personal Lines	7,122.5	6,016.0	18	20,520.2	17,227.4	19
Commercial Lines	1,083.7	825.7	31	3,055.8	2,343.7	30
Property	397.8	300.7	32	1,092.1	808.4	35
Total underwriting operations	\$8,604.0	\$7,142.4	20 %	\$24,668.1	\$20,379.5	21 %
NET PREMIUMS EARNED						
Personal Lines						
Agency	\$3,318.2	\$2,840.0	17 %	\$9,607.7	\$8,224.0	17 %
Direct	3,337.2	2,734.8	22	9,565.3	7,908.5	21
Total Personal Lines	6,655.4	5,574.8	19	19,173.0	16,132.5	19
Commercial Lines	939.6	714.0	32	2,632.5	2,031.2	30
Property	335.5	255.2	31	933.2	720.3	30
Total underwriting operations	\$7,930.5	\$6,544.0	21 %	\$22,738.7	\$18,884.0	20 %
POLICIES IN FORCE						
(thousands)	September 30,			% Growth		
	2018	2017				
POLICIES IN FORCE						
Agency auto	6,249.3	5,515.3	13 %			
Direct auto	6,875.8	5,889.6	17			
Total auto	13,125.1	11,404.9	15			
Special lines ¹	4,418.9	4,396.1	1			
Personal Lines — total	17,544.0	15,801.0	11 %			
Commercial Lines	691.9	638.6	8 %			
Property	1,867.0	1,375.6	36 %			

¹ Includes insurance for motorcycles, watercraft, RVs, and similar items.

During the first nine months of 2018, we added 1.9 million policies in force and added approximately 2.3 million since September 30, 2017. The increases reflect both an increase in new applications and lengthening retention. Although new policies are necessary to maintain a growing book of business, we continue to recognize the importance of retaining our current customers as a critical component of our continued growth. As shown in the tables below, we measure retention by policy life expectancy. We disclose our changes in policy life expectancy using a trailing 12-month period, since we believe this measure is indicative of recent experience, mitigates the effects of month-to-month variability, and addresses seasonality. We also review our customer retention for our personal auto products using a trailing 3-month period. Although using a trailing 3-month measure does not address seasonality and can reflect more volatility, this measure is more responsive to current experience and can be an indicator of how our

retention rates are moving.

To analyze growth, we review new policies, rate levels, and the retention characteristics of our segments.

43

D. Personal Lines

The following table shows our year-over-year changes for our Personal Lines business:

	Growth Over Prior Year				
	Quarter		Year-to-date		
	2018	2017	2018	2017	
APPLICATIONS					
New	17	% 20	% 19	% 11	%
Renewal	11	% 7	% 10	% 7	%
WRITTEN PREMIUM PER POLICY - AUTO	4	% 5	% 5	% 6	%
RETENTION MEASURES - AUTO					
Policy life expectancy					
Trailing 3-months	0	% 10	%		
Trailing 12-months	7	% 5	%		

In our Personal Lines business, the increase in both new and renewal applications resulted from increases in our personal auto products. In the auto businesses, the increase in new applications was primarily attributable to our competitive product offerings and position in the marketplace and reflects our increase in advertising spend during the first nine months of 2018. For the third quarter 2018, on a year-over-year basis, our auto new applications were up 19% and our special lines products increase in new applications was 5%. For the first nine months of 2018, new applications were up 24% for auto and 1% for special lines. The Direct business contributed more to our auto growth for both periods, primarily due to an increase in our advertising spend in 2018 and lower new applications in the first half of 2017, following a reduction of our advertising spend during the second half of 2016. Rate increases taken in our auto businesses over the trailing 12-month period, in addition to a shift in business mix, contributed to the increase we experienced in written premium per policy for the third quarter and first nine months of 2018. We believe that our Destination Era efforts, including our efforts to improve the customer experience, continue to have a positive impact on our retention and we will continue to focus our efforts on retention in light of the trailing 3-month policy life expectancy remaining flat year-over-year.

We report our Agency and Direct business results separately as components of our Personal Lines segment to provide further understanding of our products by distribution channel.

The Agency Business

	Growth Over Prior Year				
	Quarter		Year-to-date		
	2018	2017	2018	2017	
Auto: new applications	12	% 25	% 17	% 19	%
renewal applications	12	% 8	% 12	% 7	%
written premium per policy	5	% 5	% 5	% 6	%
Auto retention measures:					
policy life expectancy - trailing 3-months	1	% 10	%		
trailing 12-months	8	% 6	%		

The Agency business includes business written by more than 35,000 independent insurance agencies that represent Progressive, as well as brokerages in New York and California. New and renewal applications increased during the third quarter and the nine months ended September 30, 2018, primarily reflecting our competitiveness in the marketplace as a result of many of our competitors taking higher rate increases than we have over the trailing 12-month period. During the third quarter, we continued to experience new business application growth and strong policy in force growth in each of our consumer segments (e.g., inconsistently insured, consistently insured and maybe a renter, homeowners who do not bundle auto and home, and homeowners who bundle auto and home) with the largest increase coming from our bundled auto and home product (i.e., Robinsons), albeit on a smaller base. During the year, we generated new auto application growth in 46 states and the District of Columbia, including nine of our top 10 largest Agency states.

We have continued to see an increase in demand from agents as evidenced by a quote volume increase of about 1% and 4%, on a year-over-year basis, during the third quarter and first nine months of 2018, respectively, compared to the same periods last year. Our Agency auto rate of conversion (i.e., converting a quote to a sale) increased about 11% and 13% for the third quarter

44

and the nine months ended September 30, 2018, respectively, compared to last year. Written premium per policy for new and renewal Agency auto business increased 6% and 5%, respectively, for both the third quarter and first nine months of 2018, as compared to the same periods last year, primarily reflecting rate increases previously discussed.

The Direct Business

	Growth Over Prior Year				
	Quarter		Year-to-date		
	2018	2017	2018	2017	
Auto: new applications	26	% 25	% 29	% 10	%
renewal applications	15	% 9	% 14	% 9	%
written premium per policy	4	% 5	% 4	% 5	%
Auto retention measures:					
policy life expectancy - trailing 3-months	(2)	)% 8	%		
trailing 12-months	5	% 2	%		

The Direct business includes business written directly by Progressive on the Internet, through mobile devices, and over the phone. During the year, we generated new Direct auto application growth in 49 states and the District of Columbia, including all of our top 10 largest Direct states. New and renewal applications increased during the third quarter and the nine months ended September 30, 2018, primarily reflecting our competitiveness in the marketplace. In addition, we increased our advertising spend, on a year-over-year basis, for the third quarter and the first nine months of 2018, which helped drive new business growth and also contributed to the total increase in our Direct business expense ratios during both periods.

Similar to our Agency business, during the third quarter, we continued to grow our new Direct auto applications double digits across all consumer segments and, with the marketing investments that continued to target auto/home bundlers, we saw the greatest growth in our Robinsons consumer segment. Our Direct auto quote volume increased 10% and 11%, on a year-over-year basis, for the third quarter and first nine months of 2018, respectively, and the rate of conversion increased about 13% for the third quarter and 16% for the nine months ended September 30, 2018, compared to last year. Written premium per policy for new and renewal Direct auto business increased 5% and 4%, respectively, for the third quarter 2018, and 4% and 5%, for the first nine months of 2018, as compared to the same periods last year, primarily reflecting rate increases previously discussed.

E. Commercial Lines

	Growth Over Prior Year				
	Quarter		Year-to-date		
	2018	2017	2018	2017	
New applications	10	% 5	% 15	%(6))%
Renewal applications	6	% 8	% 5	% 9	%
Written premium per policy	15	% 13	% 14	% 10	%
Policy life expectancy - trailing 12-months	2	%(3))%		

Our Commercial Lines business operates in the business auto, for-hire transportation, contractor, for-hire specialty, tow, and for-hire livery markets and is primarily written in the agency channel. Commercial Lines experienced solid year-over-year new application growth in the third quarter and first nine months of 2018, reflecting increased quote volume, a generally strong economy, and competitor rate increases. We continue to monitor the growth and profitability across all of our business market targets and will impose underwriting restrictions when we believe it is necessary to meet our profitability objectives. During the second quarter 2018, we removed the majority of the underwriting restrictions previously implemented.

During the third quarter 2018, we renewed the policies on the transportation network company business we insure for the three states we added in the first quarter 2018. We currently insure transportation network company business in four states and are continuing to increase our understanding of the pricing for this product. We have also seen greater market acceptance of Smart Haul®, our usage-based insurance program for our for-hire transportation policyholders. With the enforcement of the federal electronic logging device mandate, we believe we are well positioned to offer competitive rates to the best owners/operators and small fleets.

During the three and nine months ended September 30, 2018, we experienced shifts in business mix and increased rates, which contributed to the increase in our written premium per policy. Despite higher rates, the increase in policy life expectancy was primarily attributable to a shift in business mix and competitors taking higher rate increases.

F. Property

	Growth Over Prior Year				
	Quarter		Year-to-date		
	2018	2017	2018	2017	
New applications	51	% 46	% 70	% 38	%
Renewal applications	26	% 11	% 22	% 17	%
Written premium per policy	(3)%	(1)%	(4)%	(5)%	%

Our Property business writes residential property insurance for homeowners, other property owners, and renters, primarily in the agency channel. The significant growth in new applications is attributable to state expansion that occurred during the last 12 months in both Property business written by ASI and Progressive's renters business, more competitive product offerings, as well as momentum in growing Robinsons through our Platinum agency offering. In addition, the Property growth is benefiting from HomeQuote Explorer®(HGX), our direct online homeowner insurance shopping experience that was launched in March 2017. During the second quarter 2018, ASI began offering the ability to buy Progressive Home online through the HGX platform. By the end of the third quarter 2018, the online buy button functionality was offered in three states and we plan to expand to other states over time.

The decrease in premium per policy continues to reflect a relatively higher percentage of renters policies, which have lower premiums per policy. Our core Property policies (e.g., home and condo insurance) had a slight increase in written premiums per policy for both periods on a year-over-year basis.

G. Income Taxes

A deferred tax asset or liability is a tax benefit or expense that is expected to be realized in a future tax year. At September 30, 2018 and 2017, and December 31, 2017, we reported net deferred tax liabilities. The decrease in our deferred tax liability from year-end 2017, primarily reflects premium growth and the decrease in market value of our investment portfolio. In addition, the decrease from September 2017 also reflects the reduction in the federal corporate income tax rate to 21% from the previous rate of 35%, under the legislation commonly known as the Tax Cuts and Jobs Act of 2017.

At September 30, 2018 and December 31, 2017, we had net current income taxes payable of \$65.6 million and \$23.8 million, respectively, which were reported as part of "other liabilities." At September 30, 2017, we had net current income taxes recoverable of \$12.1 million, which were reported as "other assets."

For the third quarter 2018, our effective tax rate was 17.7%, compared to 14.6% for the same period last year. On a year-to-date basis, the effective tax rate was 19.2%, compared to 29.7% for the same period last year, primarily reflecting the decrease in the federal corporate income tax rate to 21% in 2018, from the previous rate of 35%. Despite the decrease in the federal rate, the effective tax rate for the third quarter 2018 was higher than the prior-year quarter as the relative impact of the tax benefits decreased as pre-tax income increased quarter-over-prior-year quarter.

See Note 5 – Income Taxes for further discussion.

There were no material changes in our uncertain tax positions during the three and nine months ended September 30, 2018.

IV. RESULTS OF OPERATIONS – INVESTMENTS

A. Investment Results

We report total return to reflect our management philosophy governing the portfolio and our evaluation of investment results. The fully taxable equivalent (FTE) total return includes recurring investment income, adjusted to a fully taxable amount for certain securities that receive preferential tax treatment (e.g., municipal securities), and total net realized, and changes in total net unrealized, gains (losses) on securities.

Our investment portfolio produced an FTE total return of 1.2% for the three months ended September 30, 2018, compared to 1.1% for the same period in 2017. Our fixed-income and common stock portfolios had FTE total returns of 0.5% and 7.4%, respectively, for the three months ended September 30, 2018, and 0.7% and 4.3%, respectively, for the same period in 2017. Although interest rates rose during the quarter, we did not change our fixed-income portfolio duration of 2.6 years. We generated a small positive return in the fixed-income portfolio this quarter as coupon income and spread tightening were able to offset the rise in interest rates. The equity market rose to the highs of the year during the third quarter and ended close to those highs. We sold \$300 million from our indexed portfolio during September to reduce our investment portfolio risk. Our indexed portfolio return was in line with the overall market, while our actively managed portfolio lagged the overall market.

The following table summarizes investment results for the periods ended September 30:

	Three Months		Nine Months	
	2018	2017	2018	2017
Pretax recurring investment book yield (annualized)	2.9 %	2.3 %	2.7 %	2.3 %
Weighted average FTE book yield (annualized)	3.0 %	2.5 %	2.8 %	2.6 %
FTE total return:				
Fixed-income securities	0.5 %	0.7 %	0.5 %	2.8 %
Common stocks	7.4 %	4.3 %	10.3 %	14.6 %
Total portfolio	1.2 %	1.1 %	1.5 %	4.2 %

A further break-down of our FTE total returns for our portfolio, including any net gains (losses) on our derivative positions, for the periods ended September 30, follows:

	Three Months		Nine Months	
	2018	2017	2018	2017
Fixed-income securities:				
U.S. Treasury Notes	(0.1)%	0.3 %	(0.8)%	1.7 %
Municipal bonds	0.1 %	1.3 %	0.7 %	4.7 %
Corporate bonds	1.0 %	0.8 %	0.7 %	2.8 %
Residential mortgage-backed securities	0.7 %	1.1 %	1.9 %	4.0 %
Commercial mortgage-backed securities	0.9 %	0.6 %	1.4 %	3.4 %
Other asset-backed securities	0.6 %	0.5 %	1.3 %	1.5 %
Preferred stocks	1.7 %	1.5 %	2.2 %	11.2 %
Short-term investments	0.5 %	0.3 %	1.4 %	0.8 %
Common stocks:				
Indexed	7.6 %	4.6 %	10.6 %	15.0 %
Actively managed	4.3 %	0.2 %	6.7 %	7.7 %

B. Portfolio Allocation

The composition of the investment portfolio was:

(\$ in millions)	Fair Value	% of Total Portfolio	Duration (years)	Rating ¹
September 30, 2018				
Fixed maturities	\$25,642.7	79.3	% 2.9	AA-
Nonredeemable preferred stocks	840.9	2.6	2.9	BBB-
Short-term investments	2,809.7	8.7	0.1	AA
Total fixed-income securities	29,293.3	90.6	2.6	AA-
Common equities	3,057.3	9.4	na	na
Total portfolio ^{2,3}	\$32,350.6	100.0	% 2.6	AA-
September 30, 2017				
Fixed maturities	\$18,660.0	69.1	% 2.6	A+
Nonredeemable preferred stocks	813.7	3.0	3.5	BBB-
Short-term investments	4,311.5	16.0	0.1	AA
Total fixed-income securities	23,785.2	88.1	2.2	A+
Common equities	3,209.5	11.9	na	na
Total portfolio ^{2,3}	\$26,994.7	100.0	% 2.2	A+
December 31, 2017				
Fixed maturities	\$20,201.7	74.1	% 2.8	AA-
Nonredeemable preferred stocks	803.8	2.9	3.3	BBB-
Short-term investments	2,869.4	10.5	<0.1	AA-
Total fixed-income securities	23,874.9	87.5	2.5	AA-
Common equities	3,399.8	12.5	na	na
Total portfolio ^{2,3}	\$27,274.7	100.0	% 2.5	AA-

na = not applicable

¹Represents ratings at period end. Credit quality ratings are assigned by nationally recognized statistical rating organizations. To calculate the weighted average credit quality ratings, we weight individual securities based on fair value and assign a numeric score of 0-5, with non-investment-grade and non-rated securities assigned a score of 0-1. To the extent the weighted average of the ratings falls between AAA and AA+, we would assign an internal rating of AAA-.

²Our portfolio reflects the effect of unsettled security transactions; at September 30, 2018 and 2017, we had \$5.2 million and \$238.3 million, respectively, included in "other liabilities," compared to \$5.8 million included in "other assets" at December 31, 2017.

³The total fair value of the portfolio at September 30, 2018 and 2017, and December 31, 2017, included \$1.8 billion, \$1.1 billion, and \$1.6 billion, respectively, of securities held in a consolidated, non-insurance subsidiary of the holding company, net of any unsettled security transactions.

Our asset allocation strategy is to maintain 0%-25% of our portfolio in Group I securities, with the balance (75%-100%) of our portfolio in Group II securities.

We define Group I securities to include:

- common equities
- nonredeemable preferred stocks
- redeemable preferred stocks, except for 50% of investment-grade redeemable preferred stocks with cumulative dividends, which are included in Group II, and
- all other non-investment-grade fixed-maturity securities.

Group II securities include:

short-term securities, and
all other fixed-maturity securities, including 50% of the investment-grade redeemable preferred stocks with
cumulative dividends.

We believe this asset allocation strategy allows us to appropriately assess the risks associated with these securities for capital purposes and is in line with the treatment by our regulators.

The following table shows the composition of our Group I and Group II securities:

(\$ in millions)	September 30, 2018		September 30, 2017		December 31, 2017	
	Fair Value	% of Total Portfolio	Fair Value	% of Total Portfolio	Fair Value	% of Total Portfolio
Group I securities:						
Non-investment-grade fixed maturities	\$761.1	2.4	% \$445.5	1.6	% \$404.8	1.5
Redeemable preferred stocks ¹	157.8	0.5	159.5	0.6	147.4	0.5
Nonredeemable preferred stocks	840.9	2.6	813.7	3.0	803.8	2.9
Common equities	3,057.3	9.4	3,209.5	11.9	3,399.8	12.5
Total Group I securities	4,817.1	14.9	4,628.2	17.1	4,755.8	17.4
Group II securities:						
Other fixed maturities ²	24,723.8	76.4	18,055.0	66.9	19,649.5	72.1
Short-term investments	2,809.7	8.7	4,311.5	16.0	2,869.4	10.5
Total Group II securities	27,533.5	85.1	22,366.5	82.9	22,518.9	82.6
Total portfolio	\$32,350.6	100.0	% \$26,994.7	100.0	% \$27,274.7	100.0

¹Includes non-investment-grade redeemable preferred stocks of \$83.0 million, \$81.7 million, and \$83.8 million at September 30, 2018 and 2017, and December 31, 2017, respectively.

²Includes investment-grade redeemable preferred stocks, with cumulative dividends, of \$74.8 million, \$77.8 million, and \$63.6 million at September 30, 2018 and 2017, and December 31, 2017, respectively.

To determine the allocation between Group I and Group II, we use the credit ratings from models provided by the National Association of Insurance Commissioners (NAIC) for classifying our residential and commercial mortgage-backed securities, excluding interest-only securities, and the credit ratings from nationally recognized statistical rating organizations (NRSRO) for all other debt securities. NAIC ratings are based on a model that considers the book price of our securities when assessing the probability of future losses in assigning a credit rating. As a result, NAIC ratings can vary from credit ratings issued by NRSROs. Management believes NAIC ratings more accurately reflect our risk profile when determining the asset allocation between Group I and Group II securities.

Unrealized Gains and Losses

As of September 30, 2018, our fixed-maturity portfolio had pretax net unrealized losses, recorded as part of accumulated other comprehensive income, of \$316.7 million, compared to net unrealized gains of \$74.8 million at September 30, 2017 and net unrealized losses of \$8.4 million at December 31, 2017. The changes for both periods reflect valuation declines in nearly all sectors during the first nine months of 2018, most notably in our U.S. Treasury and corporate portfolios, reduced by net realized losses on sales of securities primarily in our U.S. Treasury portfolio. See Note 2 – Investments for a further break-out of our gross unrealized gains and losses.

Holding Period Gains and Losses

The following table provides the inception-to-date gross and net holding period gains (losses) for our hybrid fixed-maturity securities and our equity securities as of September 30, 2018:

(millions)	Gross Holding Period Gains	Gross Holding Period Losses	Net Holding Period Gains (Losses)
Hybrid fixed maturities:			
State and local government obligations	\$0	\$0	\$0
Corporate debt securities	0	(2.0)	(2.0)
Other asset-backed securities	0.1	0	0.1
Redeemable preferred stocks	0.4	(2.5)	(2.1)
Total hybrid fixed maturities	0.5	(4.5)	(4.0)
Equity securities:			
Nonredeemable preferred stocks	92.7	(10.7)	82.0
Common equities	1,932.9	(10.6)	1,922.3
Total equity securities	2,025.6	(21.3)	2,004.3
Total holding period securities at September 30, 2018	\$2,026.1	\$(25.8)	\$2,000.3
Total holding period securities at September 30, 2017 ¹	\$1,852.0	\$(12.8)	\$1,839.2
Total holding period securities at December 31, 2017 ¹	\$2,015.6	\$(9.4)	\$2,006.2

¹For comparative purposes, the holding period securities at September 30, 2017 and December 31, 2017 include the hybrid fixed maturities with holding period gains (losses) and the equity securities with unrealized gains (losses).

Other-Than-Temporary Impairment (OTTI)

Net realized gains (losses) may include write-downs of securities determined to have had other-than-temporary declines in fair value. In light of the new accounting guidance effective for 2018, we are no longer required to analyze our equity securities for OTTI.

We routinely monitor our fixed-maturity portfolio for pricing changes that might indicate potential impairments and perform detailed reviews of securities with unrealized losses. In such cases, changes in fair value are evaluated to determine the extent to which such changes are attributable to: (i) fundamental factors specific to the issuer, such as financial conditions, business prospects, or other factors, (ii) market-related factors, such as interest rates or equity market declines (e.g., negative return at either a sector index level or at the broader market level), or (iii) credit-related losses, where the present value of cash flows expected to be collected is lower than the amortized cost basis of the security.

Fixed-maturity securities with declines attributable to issuer-specific fundamentals are reviewed to identify available evidence, circumstances, and influences to estimate the potential for, and timing of, recovery of the investment's impairment. An other-than-temporary impairment loss is deemed to have occurred when the potential for recovery does not satisfy the criteria set forth in the current accounting guidance.

When a security in our fixed-maturity portfolio has an unrealized loss and it is more likely than not that we will be required to sell the security, we write-down the security to its current fair value and recognize the entire unrealized loss through the comprehensive income statement as a realized loss. If a fixed-maturity security has an unrealized loss and it is more likely than not that we will hold the debt security until recovery (which could be maturity), then we determine if any of the decline in value is due to a credit loss (i.e., where the present value of cash flows expected to be collected is lower than the amortized cost basis of the security) and, if so, we will recognize that portion of the impairment in net income as part of the comprehensive income statement as a realized loss; any remaining unrealized loss on the security is considered to be due to other factors (e.g., interest rate and credit spread movements) and is reflected in other comprehensive income as part of shareholders' equity, along with unrealized gains or losses on

securities that are not deemed to be other-than-temporarily impaired.

We did not record any write-downs on securities held in our investment portfolio during 2018, compared \$9.3 million and \$12.9 million during the third quarter and first nine months of 2017, respectively. We did, however, recognize impairments of renewable energy investments (which are classified as "other assets"), under which the future pretax cash flows are expected to be less than the carrying value of the assets, of \$22.1 million and \$33.2 million for the three and nine months ended September 30, 2018, respectively, compared to \$33.7 million and \$44.9 million last year.

The following table stratifies the gross unrealized losses in our fixed-maturity portfolio at September 30, 2018, by duration in a loss position:

(millions)	Fair Value	Total Gross Unrealized Losses ¹
Unrealized loss for less than 12 months	\$12,985.1	\$ 131.9
Unrealized loss for 12 months or greater	9,894.7	217.1
Total	\$22,879.8	\$ 349.0

¹None of these securities had a decline in investment value greater than 15%.

We completed a thorough review of the existing securities in these loss categories and determined that, applying the procedures and criteria discussed above, these securities were not other-than-temporarily impaired. We also determined that it is more likely that we will not be required to sell these securities, for the periods of time necessary to recover the respective cost bases of these securities, and that there are no additional credit-related impairments on our debt securities.

Since total unrealized losses are already a component of other comprehensive income and included in shareholders' equity, any recognition of these losses as additional OTTI losses would have no effect on our comprehensive income, book value, or reported investment total return.

Fixed-Income Securities

The fixed-income portfolio is managed internally and includes fixed-maturity securities, short-term investments, and nonredeemable preferred stocks. A primary exposure for the fixed-income portfolio is interest rate risk, which includes the change in value resulting from movements in the underlying market rates of debt securities held. We manage this risk by maintaining the portfolio's duration (a measure of the portfolio's exposure to changes in interest rates) between 1.5 and 5 years. The duration of the fixed-income portfolio was 2.6 years at September 30, 2018, compared to 2.2 years at September 30, 2017 and 2.5 years at December 31, 2017. The change from September 30, 2017 through September 30, 2018 reflects our proactive monitoring and reacting to the changing interest rate environment while maintaining a conservative duration position to limit potential declines in portfolio value from increases in rates. The distribution of duration and convexity (i.e., a measure of the speed at which the duration of a security is expected to change based on a rise or fall in interest rates) is monitored on a regular basis.

The duration distribution of our fixed-income portfolio, excluding short-term investments, represented by the interest rate sensitivity of the comparable benchmark U.S. Treasury Notes, was:

Duration Distribution	September 30, 2018	September 30, 2017	December 31, 2017
1 year	22.0	% 22.3	% 19.8
2 years	16.9	15.9	15.7
3 years	25.8	26.8	27.0
5 years	20.4	22.8	24.1
7 years	10.4	8.3	8.7
10 years	4.5	3.9	4.7
Total fixed-income portfolio	100.0	% 100.0	% 100.0

Another primary exposure related to the fixed-income portfolio is credit risk. This risk is managed by maintaining an A+ minimum weighted average portfolio credit quality rating, as defined by NRSROs, which was successfully maintained during the first nine months of 2018 and all of 2017.

The credit quality distribution of the fixed-income portfolio was:

Rating	September 30, 2018	September 30, 2017	December 31, 2017
AAA	51.8	% 41.9	% 45.8
AA	11.5	15.5	13.6
A	9.3	12.7	12.2
BBB	22.7	24.6	23.2
Non-investment grade/non-rated ¹			
BB	3.0	3.7	3.6
B	1.4	0.9	1.0
CCC and lower	0.1	0.1	0.1
Non-rated	0.2	0.6	0.5
Total fixed-income portfolio	100.0	% 100.0	% 100.0

¹The ratings in the table above are assigned by NRSROs. The non-investment-grade fixed-income securities based upon our Group I classification represented 3.7% of the total fixed-income portfolio at September 30, 2018, compared to 3.0% at September 30, 2017 and 2.6% at December 31, 2017.

The changes in credit quality profile from September 30, 2017 were the result of transactions in our portfolio that shifted the mix within the various credit categories.

Our portfolio is also exposed to concentration risk. Our investment constraints limit investment in a single issuer, other than U.S. Treasury Notes or a state's general obligation bonds, to 2.5% of shareholders' equity, while the single issuer guideline on preferred stocks and/or non-investment-grade debt is 1.25% of shareholders' equity. Additionally, the guideline applicable to any state's general obligation bonds is 6% of shareholders' equity. We consider concentration risk both overall and in the context of individual asset classes and sectors, including but not limited to common equities, residential and commercial mortgage-backed securities, municipal bonds, and high-yield bonds. We were within all of the constraints described above during all reported periods.

We monitor prepayment and extension risk, especially in our structured product and preferred stock portfolios. Prepayment risk includes the risk of early redemption of security principal that may need to be reinvested at less attractive rates. Extension risk includes the risk that a security will not be redeemed when anticipated, and that the security that is extended will have a lower yield than a security we might be able to obtain by reinvesting the expected redemption principal. Our holdings of different types of structured debt and preferred securities help manage this risk. During the first nine months of 2018 and all of 2017, we did not experience significant adverse prepayment or extension of principal relative to our cash flow expectations in the portfolio.

Liquidity risk is another risk factor we monitor. Our overall portfolio remains very liquid and we believe that it is sufficient to meet expected near-term liquidity requirements. The short-to-intermediate duration of our portfolio provides a source of liquidity, as we expect approximately \$5.0 billion, or 29.6%, of principal repayment from our fixed-income portfolio, excluding U.S. Treasury Notes and short-term investments, during the remainder of 2018 and all of 2019. Cash from interest and dividend payments provides an additional source of recurring liquidity.

The duration of our U.S. government obligations, which are included in the fixed-income portfolio, was comprised of the following at September 30, 2018:

(\$ in millions)	Fair Value	Duration (years)
U.S. Treasury Notes		
Less than one year	\$173.5	0.3
One to two years	1,698.9	1.3
Two to three years	2,415.0	2.4
Three to five years	3,703.4	3.8
Five to seven years	998.2	5.8
Seven to ten years	763.5	8.1
Total U.S. Treasury Notes	\$9,752.5	3.5

As of September 30, 2018, we had no interest rate swaps or treasury futures.

ASSET-BACKED SECURITIES

Included in the fixed-income portfolio are asset-backed securities, which were comprised of the following at the balance sheet dates listed:

(\$ in millions)	Fair Value	Net Unrealized Gains (Losses)	% of Asset-Backed Securities	Duration (years)	Rating (at period end)
September 30, 2018					
Residential mortgage-backed securities:					
Collateralized mortgage obligations	\$414.3	\$ (2.3)	6.0	% 1.6	AA
Home equity (sub-prime bonds)	355.5	4.3	5.1	0.4	A-
Residential mortgage-backed securities	769.8	2.0	11.1	1.1	A+
Commercial mortgage-backed securities	2,959.3	(27.2)	42.8	2.6	A+
Other asset-backed securities:					
Automobile	1,418.6	(4.2)	20.5	0.9	AAA-
Credit card	514.9	(0.2)	7.4	0.6	