FORM 10-Q UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

(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, 2021

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 001-14905

BERKSHIRE HATHAWAY INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 47-0813844

(I.R.S. Employer Identification Number)

3555 Farnam Street, Omaha, Nebraska 68131 (Address of principal executive office) (Zip Code) (402) 346-1400

(Registrant's telephone number, including area code) (Former name, former address and former fiscal year, if changed since last report)

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

Title of each class	Trading Symbols	Name of each exchange on which registered
Class A Common Stock	BRK.A	New York Stock Exchange
Class B Common Stock	BRK.B	New York Stock Exchange
0.750% Senior Notes due 2023	BRK23	New York Stock Exchange
1.125% Senior Notes due 2027	BRK27	New York Stock Exchange
1.625% Senior Notes due 2035	BRK35	New York Stock Exchange
1.300% Senior Notes due 2024	BRK24	New York Stock Exchange
2.150% Senior Notes due 2028	BRK28	New York Stock Exchange
0.625% Senior Notes due 2023	BRK23A	New York Stock Exchange
0.000% Senior Notes due 2025	BRK25	New York Stock Exchange
2.375% Senior Notes due 2039	BRK39	New York Stock Exchange
0.500% Senior Notes due 2041	BRK41	New York Stock Exchange
2.625% Senior Notes due 2059	BRK59	New York Stock Exchange

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 \boxtimes No \square

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

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 \square Non-accelerated filer \square Accelerated filer

Emerging growth company \Box

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. \Box

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

Number of shares of common stock outstanding as of October 27, 2021:

Class A —	619,938
Class B —	1,303,476,707

BERKSHIRE HATHAWAY INC.

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Part I Financial Information Item 1. Financial Statements BERKSHIRE HATHAWAY INC. and Subsidiaries CONSOLIDATED BALANCE SHEETS (dollars in millions)

	September 30, 2021	December 31, 2020
ASSETS	(Unaudited)	
ASSE15 Insurance and Other:		
Cash and cash equivalents*	\$ 65,156	\$ 44,714
Short-term investments in U.S. Treasury Bills	79,209	φ 41 ,714 90,300
Investments in fixed maturity securities	18,125	20,410
Investments in equity securities	310,739	281,170
Equity method investments	16,658	17,303
Loans and finance receivables	20,397	19,201
Other receivables	37,277	32,310
Inventories	20,191	19,208
Property, plant and equipment	20,722	21,200
Equipment held for lease	14,752	14,601
Goodwill	47,090	47,121
Other intangible assets	28,643	29,462
Deferred charges under retroactive reinsurance contracts	11,732	12,441
Other	16,301	14,580
	706,992	664,021
Railroad, Utilities and Energy:		
Cash and cash equivalents*	4,833	3,276
Receivables	4,324	3,542
Property, plant and equipment	153,401	151,216
Goodwill	26,680	26,613
Regulatory assets	3,842	3,440
Other	20,686	21,621
	213,766	209,708
	\$ 920,758	\$ 873,729

* Includes U.S. Treasury Bills with maturities of three months or less when purchased of \$37.9 billion at September 30, 2021 and \$23.2 billion at December 31, 2020.

BERKSHIRE HATHAWAY INC. and Subsidiaries CONSOLIDATED BALANCE SHEETS

(dollars in millions)

	Sep	2021 2021	De	cember 31, 2020
	(U	naudited)		
LIABILITIES AND SHAREHOLDERS' EQUITY				
Insurance and Other:				
Unpaid losses and loss adjustment expenses	\$	85,754	\$	79,854
Unpaid losses and loss adjustment expenses under retroactive reinsurance contracts		39,721		40,966
Unearned premiums		25,239		21,395
Life, annuity and health insurance benefits		22,409		21,616
Other policyholder liabilities		8,863		8,670
Accounts payable, accruals and other liabilities		31,154		29,279
Derivative contract liabilities		286		1,065
Aircraft repurchase liabilities and unearned lease revenues		5,840		5,856
Notes payable and other borrowings		39,645		41,522
		258,911		250,223
Railroad, Utilities and Energy:				
Accounts payable, accruals and other liabilities		15,978		15,224
Regulatory liabilities		7,226		7,475
Notes payable and other borrowings		75,320		75,373
		98,524		98,072
Income taxes, principally deferred		82,248		74,098
Total liabilities		439,683		422,393
Shareholders' equity:				
Common stock		8		8
Capital in excess of par value		35,603		35,626
Accumulated other comprehensive income		(4,834)		(4,243)
Retained earnings		494,775		444,626
Treasury stock, at cost		(53,072)		(32,853)
Berkshire Hathaway shareholders' equity		472,480		443,164
Noncontrolling interests		8,595		8,172
Total shareholders' equity		481,075		451,336
	\$	920,758	\$	873,729

BERKSHIRE HATHAWAY INC. and Subsidiaries CONSOLIDATED STATEMENTS OF EARNINGS

(dollars in millions except per share amounts)

(Unaudited)

		Third Quarter		First Nine M	nths	
		2021	2020	2021	2020	
Revenues:						
Insurance and Other:						
Insurance premiums earned	\$	17,727 \$	15,913 \$	51,314 \$	47,256	
Sales and service revenues		36,722	32,703	107,163	93,332	
Leasing revenues		1,565	1,316	4,336	3,905	
Interest, dividend and other investment income		1,795	1,717	5,544	6,143	
		57,809	51,649	168,357	150,630	
Railroad, Utilities and Energy:						
Freight rail transportation revenues		5,761	5,148	16,917	15,10	
Energy operating revenues		5,225	4,451	14,375	11,504	
Service revenues and other income		1,788	1,776	4,647	3,888	
		12,774	11,375	35,939	30,493	
Total revenues		70,583	63,024	204,296	181,129	
					,	
Investment and derivative contract gains		4,921	31,582	38,015	1,392	
Costs and expenses:						
Insurance and Other:						
Insurance losses and loss adjustment expenses		13,939	11,667	37,078	32,712	
Life, annuity and health insurance benefits		1,568	1,311	4,507	4,10	
Insurance underwriting expenses		3,239	3,228	9,318	9,219	
Cost of sales and services		28,984	25,957	84,275	74,565	
Cost of leasing		1,116	854	2,980	2,605	
Selling, general and administrative expenses		4,889	5,181	13,844	14,304	
Goodwill and intangible asset impairments		,	25		10,659	
Interest expense		286	263	860	817	
		54,021	48,486	152,862	148,982	
Railroad, Utilities and Energy:					110,201	
Freight rail transportation expenses		3,527	3,161	10,625	9,625	
Utilities and energy cost of sales and other expenses		3,497	3,101	10,306	8,320	
Other expenses		1,582	1,481	4,238	3,422	
Interest expense		770	737	2,322	2,209	
interest expense		9,376	8,480	27,491	23,582	
Total costs and expenses		63,397	56,966	180,353	172,564	
Earnings before income taxes and equity method earnings		12,107	37,640	61,958	9,957	
Equity method earnings		377	290	775	333	
Earnings before income taxes		12,484	37,930	62,733	10,290	
0		12,484	7,517	11,824	3,167	
Income tax expense		,				
Net earnings		10,644	30,413	50,909	7,123	
Earnings attributable to noncontrolling interests	<u>ф</u>	300	276	<u> </u>	43	
Net earnings attributable to Berkshire Hathaway shareholders	\$	10,344 \$	30,137 \$	50,149 \$	6,680	
Net earnings per average equivalent Class A share	\$	6,882 \$	18,994 \$	33,025 \$	4,16	
Net earnings per average equivalent Class B share*	\$	4.59 \$	12.66 \$	22.02 \$	2.7	
Average equivalent Class A shares outstanding		1,503,013	1,586,698	1,518,513	1,607,042	
Average equivalent Class B shares outstanding	2,2	54,518,838 2	380,046,304 2,	277,769,582 2,	410,561,550	

* Class B shares are economically equivalent to one-fifteen-hundredth of a Class A share. Accordingly, net earnings per average equivalent Class B share outstanding is equal to one-fifteen-hundredth of the equivalent Class A amount. See Note 17.

BERKSHIRE HATHAWAY INC. and Subsidiaries CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(dollars in millions)

(Unaudited)

	Third Quarter				First Nine Mon			nths	
		2021 2020		2020	2021			2020	
Net earnings	\$	10,644	\$	30,413	\$	50,909	\$	7,123	
Other comprehensive income:									
Unrealized appreciation of investments		(89)		19		(164)		42	
Applicable income taxes		20		(4)		38		(13)	
Foreign currency translation		(643)		791		(616)		(77)	
Applicable income taxes		6		(3)		(8)		34	
Defined benefit pension plans		54		(24)		158		86	
Applicable income taxes		(13)		8		(42)		(14)	
Other, net		38		16		45		(19)	
Other comprehensive income, net		(627)		803		(589)		39	
Comprehensive income		10,017		31,216		50,320		7,162	
Comprehensive income attributable to noncontrolling interests		288		302		762		423	
Comprehensive income attributable to Berkshire Hathaway									
shareholders	\$	9,729	\$	30,914	\$	49,558	\$	6,739	

BERKSHIRE HATHAWAY INC. and Subsidiaries CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY

(dollars in millions)

(Unaudited)

		Berkshire Hathaway shareholders' equity						
	and	nmon stock l capital in cess of par value		other other omprehensive income	Retained earnings	Treasury stock	Non- controlling interests	Total
For the third quarter and first nine months of 2021								
Balance at December 31, 2020	\$	35,634	\$	(4,243)	\$444,626	\$ (32,853)		\$451,336
Net earnings		—			11,711		129	11,840
Other comprehensive income, net		—		(327)	—		7	(320)
Acquisition of common stock		—		—	—	(6,565)	—	(6,565)
Transactions with noncontrolling interests		4					(119)	(115)
Balance at March 31, 2021	\$	35,638	\$	(4,570)	\$456,337	\$ (39,418)	\$ 8,189	\$456,176
Net earnings					28,094	—	331	28,425
Other comprehensive income, net				351	_		7	358
Acquisition of common stock					_	(6,028)	_	(6,028)
Transactions with noncontrolling interests		5					(136)	(131)
Balance at June 30, 2021	\$	35,643	\$	(4,219)	\$484,431	\$ (45,446)	\$ 8,391	\$478,800
Net earnings					10,344		300	10,644
Other comprehensive income, net				(615)	_		(12)	(627)
Acquisition of common stock					_	(7,626)	—	(7,626)
Transactions with noncontrolling interests		(32))				(84)	(116)
Balance at September 30, 2021	\$	35,611	\$	(4,834)	\$494,775	\$ (53,072)	\$ 8,595	\$481,075
			_					
For the third quarter and first nine months of 2020								
Balance at December 31, 2019	\$	35,666	\$	(5,243)	\$402,493	\$ (8,125)	\$ 3,772	\$428,563
Net earnings (loss)				_	(49,746)		49	(49,697)
Adoption of new accounting pronouncement					(388)		_	(388)
Other comprehensive income, net				(1,478)			(53)	(1,531)
Acquisition of common stock					_	(1,575)		(1,575)
Transactions with noncontrolling interests		(39))		_		(98)	(137)
Balance at March 31, 2020	\$	35,627	\$	(6,721)	\$352,359	\$ (9,700)	\$ 3,670	\$375,235
Net earnings				_	26,295		112	26,407
Other comprehensive income, net				754			13	767
Acquisition of common stock						(5,115)	_	(5,115)
Transactions with noncontrolling interests		(4))		_		(37)	(41)
Balance at June 30, 2020	\$		\$	(5.967)	\$378.654	\$ (14,815)		\$397,253
Net earnings	т		Ŧ		30,137		276	30,413
Other comprehensive income, net				777			26	803
Acquisition of common stock						(9,260)		(9,260)
Transactions with noncontrolling interests		6				(: ,= ;= ; ;)		(, <u>,</u> _00)
Balance at September 30, 2020	\$	35,629	\$	(5,190)	\$408,791	\$ (24,075)	\$ 4,060	\$419,215
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BERKSHIRE HATHAWAY INC. and Subsidiaries CONSOLIDATED STATEMENTS OF CASH FLOWS (dollars in millions)

(Unaudited)

		IS		
		2021		2020
Cash flows from operating activities:				
Net earnings	\$	50,909	\$	7,123
Adjustments to reconcile net earnings to operating cash flows:				
Investment (gains) losses		(37,235)		(2,032
Depreciation and amortization		8,013		7,692
Other, including asset impairment charges		(717)		10,934
Changes in operating assets and liabilities:				
Losses and loss adjustment expenses		4,809		4,480
Deferred charges reinsurance assumed		709		735
Unearned premiums		3,958		2,544
Receivables and originated loans		(6,810)		(3,223
Other assets		(1,558)		(1,673
Other liabilities		1,928		2,446
Income taxes		7,620		201
Net cash flows from operating activities		31,626		29,227
Cash flows from investing activities:				
Purchases of equity securities		(5,004)		(22,406
Sales of equity securities		11,975		28,564
Purchases of U.S. Treasury Bills and fixed maturity securities		(106,399)		(153,897
Sales of U.S. Treasury Bills and fixed maturity securities		15,945		23,744
Redemptions and maturities of U.S. Treasury Bills and fixed maturity securities		103,294		81,252
Purchases of loans and finance receivables		(70)		(619
Collections of loans and finance receivables		283		268
Acquisitions of businesses, net of cash acquired		(204)		(111
Purchases of property, plant and equipment and equipment held for lease		(9,244)		(9,516
Other		1,505		(1,685
Net cash flows from investing activities		12,081		(54,406
Cash flows from financing activities:		12,001		(31,100
Proceeds from borrowings of insurance and other businesses		2,952		3,435
Repayments of borrowings of insurance and other businesses		(3,010)		(2,116
Proceeds from borrowings of railroad, utilities and energy businesses		2,939		6,424
Repayments of borrowings of railroad, utilities and energy businesses		(2,609)		(2,449
Changes in short term borrowings, net		(689)		(1,062
Acquisition of treasury stock		(20,192)		(1,002)
Other		(755)		(13,712)
Net cash flows from financing activities		(21,364)		(1)676
Effects of foreign currency exchange rate changes		(98)		(340
		22,245		
Increase (decrease) in cash and cash equivalents and restricted cash		,		(37,195
Cash and cash equivalents and restricted cash at beginning of year*	¢	48,396	¢	64,632
Cash and cash equivalents and restricted cash at end of third quarter*	\$	70,641	\$	27,437
*Cash and cash equivalents and restricted cash are comprised of the following:				
Beginning of year—				
Insurance and Other	\$	44,714	\$	61,151
Railroad, Utilities and Energy		3,276		3,024
Restricted cash included in other assets		406		457
	\$	48,396	\$	64,632
End of third quarter—	¢	65 156	¢	22 070
Insurance and Other	\$	65,156	\$	23,078
Railroad, Utilities and Energy		4,833		3,739
Restricted cash included in other assets	<i>.</i>	652	<i>ф</i>	620
	\$	70,641	\$	27,437

BERKSHIRE HATHAWAY INC. and Subsidiaries

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS September 30, 2021

Note 1. General

The accompanying unaudited Consolidated Financial Statements include the accounts of Berkshire Hathaway Inc. ("Berkshire" or "Company") consolidated with the accounts of all its subsidiaries and affiliates in which Berkshire holds controlling financial interests as of the financial statement date. In these notes, the terms "us," "we" or "our" refer to Berkshire and its consolidated subsidiaries. Reference is made to Berkshire's most recently issued Annual Report on Form 10-K ("Annual Report"), which includes information necessary or useful to understanding Berkshire's businesses and financial statement presentations. Our significant accounting policies and practices were presented as Note 1 to the Consolidated Financial Statements included in the Annual Report.

Financial information in this Quarterly Report reflects all adjustments (consisting only of normal recurring adjustments) that are, in the opinion of management, necessary to a fair statement of results for the interim periods in accordance with accounting principles generally accepted in the United States ("GAAP"). For a number of reasons, our results for interim periods are not normally indicative of results to be expected for the year. The timing and magnitude of catastrophe losses incurred by insurance subsidiaries and the estimation error inherent to the process of determining liabilities for unpaid losses of insurance subsidiaries can be more significant to results of interim periods than to results for a full year. Given the size of our equity security investment portfolio, changes in market prices and the related changes in unrealized gains and losses on equity securities will produce significant volatility in our interim and annual earnings. In addition, changes in the fair values of certain derivative contract liabilities, gains and losses from the periodic revaluation of certain assets and liabilities denominated in foreign currencies and the magnitude of asset impairment charges can cause significant variations in periodic net earnings.

The novel coronavirus ("COVID-19") spread rapidly across the world in 2020 and was declared a pandemic by the World Health Organization. The government and private sector responses to contain its spread began to significantly affect our operating businesses in March of 2020. The COVID-19 pandemic adversely affected nearly all of our operations during 2020 and in particular during the second quarter, although the effects varied significantly. Beginning in the third quarter of 2020, many of our businesses experienced significantly higher sales and earnings relative to the second quarter, reflecting higher customer demand. The extent of the effects over longer terms cannot be reasonably estimated at this time. Risks and uncertainties resulting from the pandemic that may affect our future earnings, cash flows and financial condition include the ability to vaccinate a significant number of people in the U.S. and throughout the world, as well as the long-term effect from the pandemic on the demand for certain of our products and services. Accordingly, significant estimates used in the preparation of our financial statements, including those associated with evaluations of certain long-lived assets, goodwill and other intangible assets for impairment, expected credit losses on amounts owed to us and the estimations of certain losses assumed under insurance and reinsurance contracts, may be subject to significant adjustments in future periods.

Note 2. New accounting pronouncements

We adopted Accounting Standards Codification ("ASC") 326 "Financial Instruments-Credit Losses" on January 1, 2020. ASC 326 provides for the measurement of expected credit losses on financial assets that are carried at amortized cost based on the net amounts expected to be collected. Measurements of expected credit losses include provisions for non-collection, whether the risk is probable or remote. Prior to the adoption of ASC 326, credit losses were measured when non-collection was considered probable based on the prevailing facts and circumstances. Upon adoption of ASC 326, we recorded a charge to retained earnings of \$388 million representing the cumulative after-tax increase in our allowances for credit losses, which was primarily related to our manufactured housing loans.

In August 2018, the FASB issued ASU 2018-12 "Targeted Improvements to the Accounting for Long-Duration Contracts." ASU 2018-12 requires periodic reassessment of actuarial and discount rate assumptions used to value policyholder liabilities and deferred acquisition costs of long-duration insurance and reinsurance contracts, with the effects of changes in cash flow assumptions reflected in earnings and the effects of changes in discount rate assumptions reflected in other comprehensive income. Currently, the actuarial and discount rate assumptions are established at the contract inception date and not subsequently changed, except under limited circumstances. ASU 2018-12 requires new disclosures and is effective for fiscal years beginning after December 15, 2022, with early adoption permitted. We are evaluating the effect this standard will have on our Consolidated Financial Statements.

Note 3. Investments in fixed maturity securities

Investments in fixed maturity securities as of September 30, 2021 and December 31, 2020 are summarized as follows (in millions).

	Amortized Cost		Unrealized Gains		Unrealized Losses			Fair Value
<u>September 30, 2021</u>								
U.S. Treasury, U.S. government corporations and agencies	\$	3,358	\$	30	\$	_	\$	3,388
Foreign governments		12,407		38		(27)		12,418
Corporate bonds		1,510		431				1,941
Other		327		52		(1)		378
	\$	17,602	\$	551	\$	(28)	\$	18,125
December 31, 2020								
U.S. Treasury, U.S. government corporations and agencies	\$	3,348	\$	55	\$		\$	3,403
Foreign governments		11,233		110		(5)		11,338
Corporate bonds		4,729		464		(2)		5,191
Other		414		66		(2)		478
	\$	19,724	\$	695	\$	(9)	\$	20,410

Investments in foreign governments include securities issued by national and provincial government entities as well as instruments that are unconditionally guaranteed by such entities. As of September 30, 2021, approximately 90% of our foreign government holdings were rated AA or higher by at least one of the major rating agencies. The amortized cost and estimated fair value of fixed maturity securities as of September 30, 2021 are summarized below by contractual maturity dates (in millions). Actual maturities may differ from contractual maturities due to early call or prepayment rights held by issuers.

	Du	e in one		after one r through		after five through	Due	e after	Mortga backe	0	
	yea	r or less	fiv	ve years	ter	years	ten	years	securit	ies	Total
Amortized cost	\$	9,433	\$	7,225	\$	487	\$	206	\$	251	\$ 17,602
Fair value		9,436		7,283		758		350		298	18,125

Note 4. Investments in equity securities

Investments in equity securities as of September 30, 2021 and December 31, 2020 are summarized as follows (in millions).

	Cost	Basis	Ne	t Unrealized Gains	Fair Value
<u>September 30, 2021*</u>					
Banks, insurance and finance	\$	26,809	\$	60,931	\$ 87,740
Consumer products		34,973		119,421	154,394
Commercial, industrial and other		42,406		26,199	68,605
	\$	104,188	\$	206,551	\$ 310,739

* Approximately 70% of the aggregate fair value was concentrated in four companies (American Express Company – \$25.4 billion; Apple Inc. – \$128.4 billion; Bank of America Corporation – \$43.9 billion and The Coca-Cola Company – \$21.0 billion).

		Net Unrealized							
	(Cost Basis		Gains]	Fair Value			
December 31, 2020*									
Banks, insurance and finance	\$	26,312	\$	40,167	\$	66,479			
Consumer products		34,747		111,583		146,330			
Commercial, industrial and other		47,561		20,800		68,361			
	\$	108,620	\$	172,550	\$	281,170			

* Approximately 68% of the aggregate fair value was concentrated in four companies (American Express Company – \$18.3 billion; Apple Inc. – \$120.4 billion; Bank of America Corporation – \$31.3 billion and The Coca-Cola Company – \$21.9 billion).

Note 4. Investments in equity securities (Continued)

Our equity security investments also include Occidental Corporation ("Occidental") Cumulative Perpetual Preferred Stock with an aggregate liquidation value of \$10 billion and warrants to purchase up to 83.86 million shares of Occidental common stock at an exercise price of \$59.62 per share. The preferred stock accrues dividends at 8% per annum and is redeemable at the option of Occidental commencing in 2029 at a redemption price equal to 105% of the liquidation preference, plus any accumulated and unpaid dividends, or is mandatorily redeemable under specified events. Dividends on the preferred stock are payable in cash or, at Occidental's option, in shares of Occidental common stock. The warrants are exercisable in whole or in part until one year after the redemption of the preferred stock.

Note 5. Equity method investments

Berkshire and its subsidiaries hold investments in certain businesses that are accounted for pursuant to the equity method. Currently, the most significant of these is our investment in the common stock of The Kraft Heinz Company ("Kraft Heinz"). Kraft Heinz is one of the world's largest manufacturers and marketers of food and beverage products, including condiments and sauces, cheese and dairy, meals, meats, refreshment beverages, coffee and other grocery products. Berkshire currently owns 325,442,152 shares of Kraft Heinz common stock representing 26.5% of the outstanding shares.

Our investment in Kraft Heinz produced equity method earnings of \$194 million in the third quarter and \$337 million in the first nine months of 2021. In 2020, our Kraft Heinz investment generated equity method earnings of \$159 million in the third quarter and losses of \$180 million in the first nine months. Our earnings in the first nine months of 2020 included charges of approximately \$850 million for our proportionate share of the goodwill and intangible asset impairment charges recorded by Kraft Heinz. We received dividends on the common stock of \$391 million in each of the first nine months of 2021 and 2020, which were recorded as reductions to the carrying value of our investment.

Shares of Kraft Heinz common stock are publicly-traded and the fair value of our investment was approximately \$12.0 billion at September 30, 2021 and \$11.3 billion at December 31, 2020. The carrying value of our investment was approximately \$13.3 billion at September 30, 2021 and December 31, 2020. As of September 30, 2021, the carrying value of our investment exceeded the fair value based on the quoted market price by approximately 10%. We evaluated our investment in Kraft Heinz for impairment. Based on the prevailing facts and circumstances, we concluded recognition of an impairment loss in earnings was not required as of September 30, 2021.

Summarized consolidated financial information of Kraft Heinz follows (in millions).

			Septem 20	ber 2 21	25,	Dec	ember 26, 2020
Assets			\$	94	4,897 \$		99,830
Liabilities				44	4,659		49,587
	 Third	Quarte	er	First Nine Month		nths	
	2021		2020		2021		2020
Sales	\$ 6,324	\$	6,441	\$	19,333	\$	19,246
Net earnings (loss) attributable to Kraft Heinz common shareholders	733		597		1.269		(676)*

* Includes goodwill and identifiable intangible asset impairment charges of approximately \$3.2 billion in the first nine months.

Other investments that we account for pursuant to the equity method include Berkadia Commercial Mortgage LLC ("Berkadia"), Pilot Travel Centers LLC ("Pilot") and Electric Transmission Texas, LLC ("ETT"). The aggregate carrying value of these investments was approximately \$3.4 billion as of September 30, 2021 and \$4.0 billion as of December 31, 2020. Our equity method earnings from these entities in the first nine months were \$438 million in 2021 and \$513 million in 2020. During the first nine months of 2021, we received distributions of \$1.0 billion from these other investees, including a non-recurring distribution received from Pilot of \$849 million in the first quarter. Additional information concerning these investments follows.

We own a 50% interest in Berkadia, with Jefferies Financial Group Inc. ("Jefferies") owning the other 50% interest. Berkadia provides capital solutions, investments sales advisory and mortgage servicing for multifamily and commercial real estate. A source of funding for Berkadia's operations is through commercial paper, which was \$1.47 billion at September 30, 2021 and is limited to \$1.5 billion. Berkadia's commercial paper is supported by a surety policy issued by a Berkshire insurance subsidiary. Jefferies is obligated to indemnify us for one-half of any losses incurred under the policy.

Note 5. Equity method investments (Continued)

A Berkshire Hathaway Energy Company subsidiary owns a 50% interest in ETT, an owner and operator of electric transmission assets in the Electric Reliability Council of Texas footprint. American Electric Power owns the other 50% interest. We own a 38.6% interest in Pilot, headquartered in Knoxville, Tennessee. Pilot is the largest operator of travel centers in North America through more than 1,000 retail locations across 44 U.S. states and six Canadian provinces and through wholesale distribution. The Haslam family currently owns a 50.1% interest in Pilot and a third party owns the remaining 11.3% interest. We also entered into an agreement to acquire an additional 41.4% interest in Pilot in 2023, with the Haslam family retaining a 20% interest. As a result, Berkshire will become the majority owner of Pilot in 2023.

Note 6. Investment and derivative contract gains/losses

Investment and derivative contract gains/losses in the third quarter and first nine months of 2021 and 2020 are summarized as follows (in millions).

	Third Quarter				First Nine Mont			onths
		2021		2020		2021		2020
Investment gains (losses):								
Equity securities:								
Change in unrealized investment gains (losses) during the period on								
securities held at the end of the period	\$	4,759	\$	30,837	\$	36,163	\$	16,458
Investment gains (losses) on securities sold during the period		75		1,330		889		(13,901)
		4,834		32,167		37,052		2,557
Fixed maturity securities:								
Gross realized gains		24		12		59		53
Gross realized losses		(7)		(2)		(20)		(22)
Other				(552)		144		(556)
Investment gains (losses)		4,851		31,625		37,235		2,032
Derivative contract gains (losses)		70		(43)		780		(640)
	\$	4,921	\$	31,582	\$	38,015	\$	1,392

Equity securities gains and losses include unrealized gains and losses from changes in fair values during the period on equity securities we still own, as well as gains and losses on securities we sold during the period. As reflected in the Consolidated Statements of Cash Flows, we received proceeds from sales of equity securities of approximately \$12.0 billion in the first nine months of 2021 and \$28.6 billion in the first nine months of 2020. In the preceding table, investment gains and losses on equity securities sold during the period represent the difference between the sales proceeds and the fair value of the equity securities sold at the beginning of the applicable period or, if later, the purchase date. Our taxable gains/losses on equity securities sold are generally the difference between the proceeds from sales and original cost. Taxable gains in the third quarter and first nine months of 2021 were \$941 million and \$2.9 billion, respectively, and were \$3.9 billion and \$666 million in the third quarter and first nine months of 2020, respectively.

The derivative contract gains and losses derive from equity index put option contracts written prior to March 2008 on four major equity indexes. Information related to these contracts follows (dollars in millions).

	September 30, 2021	Dec	cember 31, 2020
Balance sheet liabilities - at fair value	\$ 286	\$	1,065
Notional value	8,251		10,991
Intrinsic value	83		727
Weighted average remaining life (in years)	0.6		1.2

Notional value in the preceding table represents the aggregate undiscounted amounts payable assuming the value of each index is zero at each contract's expiration date. Intrinsic value is the undiscounted liability assuming the contracts are settled based on the index values and foreign currency exchange rates as of the balance sheet date. Substantially all open contracts as of September 30, 2021 will expire by February 2023. Future payments, if any, under any given contract will be required if the index value is below the contract strike price at the contract expiration date. We received aggregate premiums on the contract inception dates of \$1.5 billion with respect to unexpired contracts as of September 30, 2021 and we have no counterparty credit risk.

Note 7. Loans and finance receivables

Loans and finance receivables are summarized as follows (in millions).

	Sep	tember 30, 2021	De	ecember 31, 2020
Loans and finance receivables before allowances and discounts	\$	21,685	\$	20,436
Allowances for uncollectible loans		(744)		(712)
Unamortized acquisition discounts and points		(544)		(523)
	\$	20,397	\$	19,201

Loans and finance receivables are principally manufactured home loans, and to a lesser extent, commercial loans and site-built home loans. Reconciliations of the allowance for credit losses on loans and finance receivables for each of the first nine months of 2021 and 2020 follow (in millions).

	202	21	 2020
Balance at beginning of year	\$	712	\$ 167
Adoption of ASC 326		—	486
Provision for credit losses		65	177
Charge-offs, net of recoveries		(33)	 (99)
Balance at September 30	\$	744	\$ 731

As of September 30, 2021, approximately 99% of home loan balances were evaluated collectively for impairment. As of September 30, 2021, we considered approximately 97% of the loan balances to be current as to payment status. A summary of performing and non-performing home loans before discounts and allowances by year of loan origination as of September 30, 2021 follows (in millions).

	Origination Year											
		2021		2020		2019		2018		2017	 Prior	 Total
Performing	\$	3,794	\$	3,264	\$	2,308	\$	1,748	\$	1,300	\$ 7,126	\$ 19,540
Non-performing		2		3		6		6		5	40	62
	\$	3,796	\$	3,267	\$	2,314	\$	1,754	\$	1,305	\$ 7,166	\$ 19,602

We are party to an agreement with Seritage Growth Properties to provide a \$2.0 billion term loan facility, which expires on July 31, 2023. The outstanding loan under the facility was approximately \$1.6 billion at September 30, 2021 and December 31, 2020, and is secured by mortgages on real estate properties. In the first quarter of 2020, we provided a loan to Lee Enterprises, Inc. in connection with its acquisition of our newspaper operations and the repayment of its then outstanding credit facilities. The loan balance was \$483 million as of September 30, 2021 and \$524 million at December 31, 2020. We are the sole lender to each of these entities and each of these loans is current as to payment status.

Note 8. Other receivables

Other receivables are comprised of the following (in millions).

	Se	ptember 30, 2021	D	December 31, 2020	
Insurance and other:					
Insurance premiums receivable	\$	16,151	\$	14,025	
Reinsurance recoverables		4,892		4,805	
Trade receivables		13,579		11,521	
Other		3,344		2,637	
Allowances for uncollectible accounts		(689)		(678)	
	\$	37,277	\$	32,310	
Railroad, utilities and energy:					
Trade receivables	\$	3,780	\$	3,235	
Other		720		438	
Allowances for uncollectible accounts		(176)		(131)	
	\$	4,324	\$	3,542	

Note 8. Other receivables (Continued)

Provisions for credit losses in the first nine months with respect to receivables summarized above were \$335 million in 2021 and \$449 million in 2020. Charge-offs, net of recoveries, in the first nine months were \$279 million in 2021 and \$238 million in 2020.

Note 9. Inventories

Inventories are comprised of the following (in millions).

	5	September 30, 2021	D	December 31, 2020
Raw materials	\$	5,389	\$	4,821
Work in process and other		3,290		2,541
Finished manufactured goods		4,446		4,412
Goods acquired for resale		7,066		7,434
	\$	20,191	\$	19,208

Note 10. Property, plant and equipment

A summary of property, plant and equipment of our insurance and other businesses follows (in millions).

	September 2021	· ·	Dee	2020 ember 31,	
Land, buildings and improvements	\$	13,846	\$	13,799	
Machinery and equipment		25,849		25,488	
Furniture, fixtures and other		4,670		4,530	
		44,365		43,817	
Accumulated depreciation		(23,643)		(22,617)	
	\$	20,722	\$	21,200	

A summary of property, plant and equipment of railroad and utilities and energy businesses follows (in millions). The utility generation, transmission and distribution systems and interstate natural gas pipeline assets are owned by regulated public utility and natural gas pipeline subsidiaries.

	Sej	September 30, 2021		ecember 31, 2020
Railroad:				
Land, track structure and other roadway	\$	65,167	\$	63,824
Locomotives, freight cars and other equipment		13,784		13,523
Construction in progress		1,030		916
		79,981		78,263
Accumulated depreciation		(14,641)		(13,175)
		65,340		65,088
Utilities and energy:				
Utility generation, transmission and distribution systems		89,026		86,730
Interstate natural gas pipeline assets		17,044		16,667
Independent power plants and other assets		13,009		12,671
Construction in progress		4,343		3,308
		123,422		119,376
Accumulated depreciation		(35,361)		(33,248)
		88,061		86,128
	\$	153,401	\$	151,216

Depreciation expense for the first nine months of 2021 and 2020 is summarized below (in millions).

	First Nine Months				
	2021 2020				
Insurance and other	\$ 1,725	\$	1,725		
Railroad, utilities and energy	4,485		4,105		
	\$ 6,210	\$	5,830		

Note 11. Equipment held for lease

Equipment held for lease includes railcars, aircraft, over-the-road trailers, intermodal tank containers, cranes, storage units and furniture. A summary of equipment held for lease follows (in millions).

	 September 30, 2021		
Railcars	\$ 9,482	\$	9,402
Aircraft	8,852		8,204
Other	5,031		4,868
	23,365		22,474
Accumulated depreciation	(8,613)		(7,873)
	\$ 14,752	\$	14,601

Depreciation expense for equipment held for lease in the first nine months was \$861 million in 2021 and \$900 million in 2020. Fixed and variable operating lease revenues for the third quarter and first nine months of 2021 and 2020 are summarized below (in millions).

	 Third Quarter				First Nine Months				
	 2021		2020		2021		2020		
Fixed lease revenue	\$ 1,151	\$	1,047	\$	3,318	\$	3,205		
Variable lease revenue	414		269		1,018		700		
	\$ 1,565	\$	1,316	\$	4,336	\$	3,905		

Note 12. Goodwill and other intangible assets

Reconciliations of the changes in the carrying value of goodwill for the first nine months of 2021 and for the year ended December 31, 2020 follow (in millions).

	Se	eptember 30, 2021	1	December 31, 2020
Balance at beginning of year	\$	73,734	\$	81,882
Acquisitions of businesses		182		1,758
Impairment charges		_		(10,033)
Other, including foreign currency translation		(146)		127
Balance at end of period*	\$	73,770	\$	73,734

* Net of accumulated goodwill impairments of \$11.0 billion as of September 30, 2021 and December 31, 2020.

Other intangible assets and related accumulated amortization are summarized as follows (in millions).

	September 30, 2021				December 31, 2020			
		Gross carrying Accumulated amount amortization			Gross carrying amount		cumulated ortization	
Insurance and other:								
Customer relationships	\$	27,331	\$	6,281	\$	27,374	\$	5,756
Trademarks and trade names		5,178		797		5,206		779
Patents and technology		4,763		3,442		4,766		3,313
Other		3,317		1,426		3,339		1,375
	\$	40,589	\$	11,946	\$	40,685	\$	11,223
Railroad, utilities and energy:								
Customer relationships	\$	678	\$	388	\$	678	\$	361
Trademarks, trade names and other		1,005		133		1,003		98
	\$	1,683	\$	521	\$	1,681	\$	459

Note 12. Goodwill and other intangible assets (Continued)

Intangible asset amortization expense in the first nine months was \$942 million in 2021 and \$962 million in 2020. Intangible assets with indefinite lives were \$18.3 billion as of September 30, 2021 and December 31, 2020 and primarily related to certain customer relationships and trademarks and trade names.

During 2020, we concluded it was necessary to reevaluate goodwill and indefinite-lived intangible assets of certain of our reporting units for impairment due to the disruptions arising from the COVID-19 pandemic. We recorded pre-tax goodwill impairment charges of approximately \$10 billion and pre-tax indefinite-lived intangible asset impairment charges of \$638 million in the second quarter of 2020. Approximately \$10 billion of these charges related to Precision Castparts Corp. ("PCC"), the largest business within Berkshire's manufacturing segment. The carrying value of PCC-related goodwill and indefinite-lived intangible assets prior to the impairment charges was approximately \$31 billion.

Note 13. Unpaid losses and loss adjustment expenses

Our liabilities for unpaid losses and loss adjustment expenses (also referred to as "claim liabilities") under property and casualty insurance and reinsurance contracts are based upon estimates of the ultimate claim costs associated with claim occurrences as of the balance sheet date and include estimates for incurred-but-not-reported ("IBNR") claims. A reconciliation of the changes in claim liabilities, excluding liabilities under retroactive reinsurance contracts (see Note 14), for each of the nine-month periods ending September 30, 2021 and 2020 follows (in millions).

	2021	2020
Balances at beginning of year:		
Gross liabilities	\$ 79,85	54 \$ 73,019
Reinsurance recoverable on unpaid losses	(2,91	12) (2,855)
Net liabilities	76,94	42 70,164
Incurred losses and loss adjustment expenses:		
Current accident year events	38,44	47 31,777
Prior accident years' events	(2,15	51)69
Total	36,29	96 31,846
Paid losses and loss adjustment expenses:		
Current accident year events	(15,27	(11,691)
Prior accident years' events	(15,07	76) (15,259)
Total	(30,35	53) (26,950)
Foreign currency translation adjustment	(11	19) 124
Balances at September 30:		
Net liabilities	82,76	56 75,184
Reinsurance recoverable on unpaid losses	2,98	2,857
Gross liabilities	\$ 85,75	54 \$ 78,041

Incurred losses and loss adjustment expenses shown in the preceding table were recorded in earnings and related to insured events occurring in the current year ("current accident year") and events occurring in all prior years ("prior accident years"). Current accident year incurred losses in 2021 included approximately \$2.7 billion from significant catastrophe events (losses in excess of \$100 million per event) in the U.S. and Europe, including approximately \$2.2 billion in the third quarter, primarily from Hurricane Ida and floods in Europe.

We recorded a net reduction of estimated ultimate liabilities for prior accident years of \$2.2 billion in the first nine months of 2021 compared to a net increase of \$69 million in 2020, which produced a corresponding decrease in 2021 and an increase in 2020 in incurred losses and loss adjustment expenses. These amounts represented 2.8% in 2021 and 0.1% in 2020 of the net liabilities at the beginning of each year.

Estimated ultimate liabilities for prior years' loss events with respect to primary insurance were reduced \$1.6 billion in the first nine months of 2021 compared to \$273 million in 2020. The reduction in 2021 derived primarily from private passenger automobile claims, and to a lesser extent medical professional liability and workers' compensation claims. Estimated ultimate liabilities for prior years' loss events related to reinsurance assumed in the first nine months decreased \$564 million in 2021 and increased \$342 million in 2020, which included increased provisions for legacy casualty exposures.

Note 14. Retroactive reinsurance contracts

Retroactive reinsurance policies provide indemnification of losses and loss adjustment expenses of short-duration insurance contracts with respect to underlying loss events that occurred prior to the contract inception date. Claims payments may commence immediately after the contract date or, when applicable, once a contractual retention amount has been reached. Reconciliations of the changes in estimated liabilities for retroactive reinsurance unpaid losses and loss adjustment expenses ("claim liabilities") and related deferred charges reinsurance assumed for each of the nine-month periods ending September 30, 2021 and 2020 follow (in millions).

	2021				2020			
	Unpaid lossesDeferredand losschargesadjustmentreinsuranceexpensesassumed		Unpaid losses and loss adjustment expenses		re	Deferred charges insurance assumed		
Balances at beginning of year	\$	40,966	\$	(12,441)	\$ 42,4	<u>441</u>	\$	(13,747)
Incurred losses and loss adjustment expenses:								
Current year contracts		82		_		—		
Prior years' contracts		(9)		709	-	131		735
Total		73		709		131		735
Paid losses and loss adjustment expenses		(1,318)			()	786)		
Balances at September 30	\$	39,721	\$	(11,732)	\$ 41,7	786	\$	(13,012)
Incurred losses and loss adjustment expenses, net of deferred charges	\$	782			\$ 8	866		

In the preceding table, classifications of incurred losses and loss adjustment expenses are based on the inception dates of the contracts, which reflect when our exposure to losses begins. Incurred losses and loss adjustment expenses for prior years' contracts were \$700 million in 2021 and \$866 million in 2020, which consisted of recurring amortization of deferred charges and the effects of changes in the expected timing and amount of future loss payments. Berkshire's subsidiary, National Indemnity Company ("NICO"), is party to a contract with certain subsidiaries of American International Group, Inc. (collectively, "AIG"), in which NICO's ultimate liability is contractually limited to \$20 billion. Claim payments to AIG commenced in 2021. Our estimated unpaid claim liabilities with regard to the AIG contract were approximately \$16.8 billion at September 30, 2021, reflecting paid claims of \$837 million during the first nine months of 2021, and \$17.7 billion at December 31, 2020. Deferred charges related to the AIG contract were approximately \$5.0 billion at September 30, 2021 and \$5.4 billion at December 31, 2020.

Note 15. Notes payable and other borrowings

Notes payable and other borrowings are summarized below (in millions). The weighted average interest rates and maturity date ranges shown in the following tables are based on borrowings as of September 30, 2021.

	Weighted Average Interest Rate	September 30, 2021	December 31, 2020
Insurance and other:			
Berkshire Hathaway Inc. ("Berkshire"):			
U.S. Dollar denominated due 2022-2047	3.3%	\$ 6,817	\$ 8,308
Euro denominated due 2023-2041	1.0%	7,934	8,326
Japanese Yen denominated due 2023-2060	0.6%	7,028	6,031
Berkshire Hathaway Finance Corporation ("BHFC"):			
U.S. Dollar denominated due 2022-2051	3.6%	10,757	10,766
Great Britain Pound denominated due 2039-2059	2.5%	2,315	2,347
Other subsidiary borrowings due 2021-2045	4.1%	4,497	4,682
Subsidiary short-term borrowings	2.8%	297	1,062
		\$ 39,645	\$ 41,522

Note 15. Notes payable and other borrowings (Continued)

In the first nine months of 2021, Berkshire repaid \in 550 million and \$1.5 billion of maturing senior notes. In January 2021, Berkshire issued \in 600 million of 0.5% senior notes due in 2041. In April 2021, Berkshire issued ¥160 billion (approximately \$1.5 billion) of senior notes with maturity dates ranging from 2026 to 2041 and a weighted average interest rate of 0.5%.

Borrowings of BHFC, a wholly owned finance subsidiary of Berkshire, consist of senior unsecured notes used to fund manufactured housing loans originated or acquired and equipment held for lease of certain subsidiaries. BHFC borrowings are fully and unconditionally guaranteed by Berkshire. In January 2021, BHFC repaid \$750 million of maturing senior notes and issued \$750 million of 2.5% senior notes due in 2051.

The carrying values of Berkshire and BHFC non-U.S. Dollar denominated senior notes (\notin 6.9 billion, £1.75 billion and ¥785.5 billion par at September 30, 2021) reflect the applicable exchange rates as of the balance sheet dates. The effects of changes in foreign currency exchange rates during the period are recorded in earnings as a component of selling, general and administrative expenses. Changes in the exchange rates resulted in pre-tax gains of \$264 million in the third quarter and \$939 million in the first nine months of 2021. In 2020, exchange rate changes produced pre-tax losses of \$549 million in the third quarter and \$447 million in the first nine months.

In addition to BHFC borrowings, Berkshire guaranteed approximately \$3.9 billion of other subsidiary borrowings at September 30, 2021. Generally, Berkshire's guarantee of a subsidiary's debt obligation is an absolute, unconditional and irrevocable guarantee for the full and prompt payment when due of all payment obligations.

	WeightedAverageSeptember 30,Interest Rate2021			D	ecember 31, 2020
Railroad, utilities and energy:					
Berkshire Hathaway Energy Company ("BHE") and subsidiaries:					
BHE senior unsecured debt due 2023-2051	4.3%	\$	13,001	\$	13,447
Subsidiary and other debt due 2021-2064	4.1%		37,096		36,420
Short-term borrowings	1.6%		1,968		2,286
Burlington Northern Santa Fe ("BNSF") and subsidiaries due 2021-2097	4.5%		23,255		23,220
		\$	75,320	\$	75,373

BHE subsidiary debt represents amounts issued pursuant to separate financing agreements. Substantially all of the assets of certain BHE subsidiaries are, or may be, pledged or encumbered to support or otherwise secure such debt. These borrowing arrangements generally contain various covenants, which pertain to leverage ratios, interest coverage ratios and/or debt service coverage ratios. In the first nine months of 2021, BHE and its subsidiaries repaid \$1.7 billion of term debt and issued \$2.1 billion of term debt with a weighted average interest rate of 3.0% and maturities ranging from 2051 to 2052.

BNSF's borrowings are primarily senior unsecured debentures. During the first nine months of 2021, BNSF repaid \$888 million of debt and issued \$925 million of 3.3% term debt due in 2051. As of September 30, 2021, BNSF, BHE and their subsidiaries were in compliance with all applicable debt covenants. Berkshire does not guarantee any debt, borrowings or lines of credit of BNSF, BHE or their subsidiaries.

As of September 30, 2021, our subsidiaries had unused lines of credit and commercial paper capacity aggregating approximately \$10.5 billion to support short-term borrowing programs and provide additional liquidity. Such unused lines of credit included approximately \$8.8 billion related to BHE and its subsidiaries.

Note 16. Fair value measurements

Our financial assets and liabilities are summarized below as of September 30, 2021 and December 31, 2020, with fair values shown according to the fair value hierarchy (in millions). The carrying values of cash and cash equivalents, U.S. Treasury Bills, other receivables and accounts payable, accruals and other liabilities are considered to be reasonable estimates of their fair values.

	Carrying Value	F	air Value	Quoted Prices (Level 1)	0	ignificant Other bservable Inputs Level 2)	Un	gnificant observable Inputs Level 3)
September 30, 2021								
Investments in fixed maturity securities:								
U.S. Treasury, U.S. government corporations								
and agencies	\$ 3,388	\$	3,388	\$ 3,345	\$	43	\$	—
Foreign governments	12,418		12,418	11,074		1,344		—
Corporate bonds	1,941		1,941			1,941		
Other	378		378			378		—
Investments in equity securities	310,739		310,739	298,633		8		12,098
Investment in Kraft Heinz common stock	13,290		11,983	11,983		_		—
Loans and finance receivables	20,397		21,743			2,391		19,352
Derivative contract assets ⁽¹⁾	540		540	15		407		118
Derivative contract liabilities:								
Railroad, utilities and energy ⁽¹⁾	130		130	3		69		58
Equity index put options	286		286					286
Notes payable and other borrowings:								
Insurance and other	39,645		42,851			42,810		41
Railroad, utilities and energy	75,320		87,965			87,965		
December 31, 2020								
Investments in fixed maturity securities:								
U.S. Treasury, U.S. government corporations								
and agencies	\$ 3,403	\$	3,403	\$ 3,358	\$	45	\$	
Foreign governments	11,338		11,338	9,259		2,079		—
Corporate bonds	5,191		5,191			5,191		—
Other	478		478			478		
Investments in equity securities	281,170		281,170	271,848		38		9,284
Investment in Kraft Heinz common stock	13,336		11,280	11,280				
Loans and finance receivables	19,201		20,554			2,692		17,862
Derivative contract assets ⁽¹⁾	270		270	1		72		197
Derivative contract liabilities:								
Railroad, utilities and energy ⁽¹⁾	121		121	6		96		19
Equity index put options	1,065		1,065					1,065
Notes payable and other borrowings:								
Insurance and other	41,522		46,676			46,665		11
Railroad, utilities and energy	75,373		92,593			92,593		

(1) Assets are included in other assets and liabilities are included in accounts payable, accruals and other liabilities.

Note 16. Fair value measurements (Continued)

The fair values of substantially all of our financial instruments were measured using market or income approaches. The hierarchy for measuring fair value consists of Levels 1 through 3, which are described below.

Level 1 – Inputs represent unadjusted quoted prices for identical assets or liabilities exchanged in active markets.

<u>Level 2</u> – Inputs include directly or indirectly observable inputs (other than Level 1 inputs) such as quoted prices for similar assets or liabilities exchanged in active or inactive markets; quoted prices for identical assets or liabilities exchanged in inactive markets; other inputs that may be considered in fair value determinations of the assets or liabilities, such as interest rates and yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates; and inputs that are derived principally from or corroborated by observable market data by correlation or other means. Pricing evaluations generally reflect discounted expected future cash flows, which incorporate yield curves for instruments with similar characteristics, such as credit ratings, estimated durations and yields for other instruments of the issuer or entities in the same industry sector.

<u>Level 3</u> – Inputs include unobservable inputs used in the measurement of assets and liabilities. Management is required to use its own assumptions regarding unobservable inputs because there is little, if any, market activity in the assets or liabilities and it may be unable to corroborate the related observable inputs. Unobservable inputs require management to make certain projections and assumptions about the information that would be used by market participants in valuing assets or liabilities.

Reconciliations of significant assets and liabilities measured and carried at fair value on a recurring basis with the use of significant unobservable inputs (Level 3) for the nine months ended September 30, 2021 and 2020 follow (in millions).

	be	alance at eginning of year	ine	ns (losses) cluded in arnings	dis	quisitions, positions and ttlements	alance at stember 30
Investments in equity securities:							
2021	\$	8,978	\$	1,713	\$	1,100	\$ 11,791
2020		10,405		(2,235)		(1)	8,169

Equity index put option contract liabilities:

2021	(1,065)	780	(1)	(286)
2020	(968)	(640)	61	(1,547)

Quantitative information as of September 30, 2021 with respect to significant assets and liabilities measured and carried at fair value on a recurring basis with the use of significant unobservable inputs (Level 3) follows (dollars in millions).

	Fair Value	Principal Valuation Techniques	Unobservable Inputs	Weighted Average
Investments in equity securities:				
Preferred stock	\$ 11,179	Discounted cash flow	Expected duration	7 years
			Discount for transferability restrictions and subordination	355 basis points
Common stock warrants	612	Warrant pricing model	Expected duration	8 years
			Volatility	37%
Equity index put option contract liabilities	286	Option pricing model	Volatility	18%

Investments in equity securities in the preceding table include our investments in certain preferred stocks and common stock warrants that do not have readily determinable market values as defined under GAAP. These investments are subject to contractual restrictions on transferability and may contain provisions that prevent us from economically hedging our investments. We applied discounted cash flow techniques in valuing the preferred stock and we made assumptions regarding the expected duration of the investment and the effects of subordination in liquidation. In valuing the common stock warrants, we used a warrant valuation model. While most of the inputs to the model are observable, we made assumptions regarding the expected duration and volatility of the warrants.

Note 16. Fair value measurements (Continued)

Our equity index put option derivative contracts are illiquid and contain contract terms that are not standard in derivatives markets. For example, we are not required to post collateral under most of our contracts. We determine the fair value of the equity index put option contract liabilities based on the Black-Scholes option valuation model.

Note 17. Common stock

Changes in Berkshire's issued, treasury and outstanding common stock during the first nine months of 2021 are shown in the table below. In addition to our common stock, 1,000,000 shares of preferred stock are authorized, but none are issued.

		s A, \$5 Par ` 00 shares au		Class B, \$0.0033 Par Value (3,225,000,000 shares authorized)				
	Issued	Treasury	Outstanding	Issued	Treasury	Outstanding		
Balances at December 31, 2020	678,523	(34,592)	643,931	1,469,359,852	(119,316,381)	1,350,043,471		
Conversions of Class A to Class B common stock	(11,849)		(11,849)	17,773,500	_	17,773,500		
Treasury stock acquired	—	(11,285)	(11,285)		(59,366,771)	(59,366,771)		
Balances at September 30, 2021	666,674	(45,877)	620,797	1,487,133,352	(178,683,152)	1,308,450,200		

Each Class A common share is entitled to one vote per share. Class B common stock possesses dividend and distribution rights equal to one-fifteen-hundredth (1/1,500) of such rights of Class A common stock. Each Class B common share possesses voting rights equal to one-ten-thousandth (1/10,000) of the voting rights of a Class A share. Unless otherwise required under Delaware General Corporation Law, Class A and Class B common shares vote as a single class. Each share of Class A common stock is convertible, at the option of the holder, into 1,500 shares of Class B common stock. Class B common stock is not convertible into Class A common stock. On an equivalent Class A common stock basis, there were 1,493,097 shares outstanding as of September 30, 2021 and 1,543,960 shares outstanding as of December 31, 2020.

Since we have two classes of common stock, we provide earnings per share data on the Consolidated Statements of Earnings for average equivalent Class A shares outstanding and average equivalent Class B shares outstanding. Class B shares are economically equivalent to one-fifteen-hundredth (1/1,500) of a Class A share. Average equivalent Class A shares outstanding represents average Class A shares outstanding plus one-fifteen-hundredth (1/1,500) of the average Class B shares outstanding. Average equivalent Class B shares outstanding. Average equivalent Class B shares outstanding represents average Class B shares outstanding plus 1,500 times the average Class A shares outstanding.

Berkshire's common stock repurchase program permits Berkshire to repurchase its Class A and Class B shares any time that Warren Buffett, Berkshire's Chairman of the Board and Chief Executive Officer, and Charlie Munger, Vice Chairman of the Board, believe that the repurchase price is below Berkshire's intrinsic value, conservatively determined. The program continues to allow share repurchases in the open market or through privately negotiated transactions and does not specify a maximum number of shares to be repurchased. However, repurchases will not be made if they would reduce the total value of Berkshire's consolidated cash, cash equivalents and U.S. Treasury Bills holdings below \$30 billion. The repurchase program does not obligate Berkshire to repurchase any specific dollar amount or number of Class A or Class B shares and there is no expiration date to the program.

Note 18. Income taxes

Our consolidated effective income tax rates were 14.7% for the third quarter and 18.8% for the first nine months of 2021 compared to 19.8% for the third quarter and 30.8% for the first nine months of 2020. Our effective income tax rate normally reflects recurring benefits from dividends-received deductions applicable to investments in equity securities and production tax credits related to wind-powered electricity generation placed in service in the U.S. Our periodic effective income tax rate will also vary due to the changes in mix of pre-tax earnings, the magnitude of gains or losses with respect to our investments in equity securities, the amount of non-deductible goodwill impairment charges and other expenses and the underlying income tax rates applicable in the various taxing jurisdictions.

Note 19. Accumulated other comprehensive income

A summary of the net changes in after-tax accumulated other comprehensive income attributable to Berkshire Hathaway shareholders for the nine months ending September 30, 2021 and 2020 follows (in millions).

	Unrealized appreciation of investments, <u>net</u>		Foreign currency translation		Defined benefit pension plans				 cumulated other nprehensive income
First nine months of 2021									
Balance at beginning of year	\$	536	\$	(3,082)	\$	(1,645)	\$	(52)	\$ (4,243)
Other comprehensive income, net		(126)		(619)		112		42	 (591)
Balance at end of period	\$	410	\$	(3,701)	\$	(1,533)	\$	(10)	\$ (4,834)
					_		_		
First nine months of 2020									
Balance at beginning of year	\$	481	\$	(4,346)	\$	(1,369)	\$	(9)	\$ (5,243)
Other comprehensive income, net		29		(28)		67		(15)	53
Balance at end of period	\$	510	\$	(4,374)	\$	(1,302)	\$	(24)	\$ (5,190)

Note 20. Supplemental cash flow information

A summary of supplemental cash flow information is presented in the following table (in millions).

	 First Nine Months				
	 2021		2020		
Cash paid during the period for:					
Income taxes	\$ 4,002	\$	2,715		
Interest:					
Insurance and other	1,040		892		
Railroad, utilities and energy	2,335		2,174		

Note 21. Contingencies and commitments

We are parties in a variety of legal actions that routinely arise out of the normal course of business, including legal actions seeking to establish liability directly through insurance contracts or indirectly through reinsurance contracts issued by Berkshire subsidiaries. Plaintiffs occasionally seek punitive or exemplary damages. We do not believe that such normal and routine litigation will have a material effect on our financial condition or results of operations. Berkshire and certain of its subsidiaries are also involved in other kinds of legal actions, some of which assert or may assert claims or seek to impose fines and penalties. We believe that any liability that may arise as a result of other pending legal actions will not have a material effect on our consolidated financial condition or results of operations.

On November 1, 2020, Berkshire Hathaway Energy ("BHE") acquired a large portion of the natural gas transmission and storage business of Dominion Energy, Inc. ("Dominion") for approximately \$2.5 billion. The acquisition included a partial ownership of a liquefied natural gas export, import and storage facility ("Cove Point"), consisting of 100% of the general partnership interest and 25% of the limited partnership interests. We treat Cove Point as a consolidated subsidiary because we have the power to direct the activities that most significantly affect its economic performance and the obligation to absorb losses and the right to receive benefits which could be significant to Cove Point. The fair value of the assets acquired was \$13.4 billion, including residual goodwill of \$1.7 billion, and the fair value of the liabilities assumed was \$7.0 billion, including the assumption of approximately \$5.6 billion of debt. We also recorded noncontrolling interests of \$3.9 billion attributable to limited partnership interests in Cove Point that are held by third parties. In addition, BHE previously agreed to acquire certain other of Dominion's pipeline business for approximately \$1.3 billion. Effective July 9, 2021, BHE and Dominion agreed to terminate this planned transaction due to ongoing uncertainty in obtaining the necessary regulatory approvals.

Note 22. Revenues from contracts with customers

We recognize revenue when a good or service is transferred to a customer. A good or service is transferred when or as the customer obtains control of that good or service. Revenues are based on the consideration we expect to receive in connection with our promises to deliver goods and services to our customers.

The following tables summarize customer contract revenues disaggregated by reportable segment and the source of the revenue for the third quarter and first nine months of 2021 and 2020 (in millions). Other revenues included in consolidated revenues were primarily insurance premiums earned, interest, dividend and other investment income and leasing revenues, which are not considered to be revenues from contracts with customers under GAAP.

	Manufacturing			Lane npany	~	ervice and etailing]	BNSF		erkshire athaway Energy	Insurance, Corporate and Other		Total
Three months ending September 30, 2021													
Manufactured products:													
Industrial and commercial products	\$	5,600	\$		\$	43	\$		\$		\$		\$ 5,643
Building products		5,005											5,005
Consumer products		4,758											4,758
Grocery and convenience store distribution				7,933									7,933
Food and beverage distribution		_		4,478									4,478
Auto sales						2,423							2,423
Other retail and wholesale distribution		742				3,913							4,655
Service		400		175		1,073		5,747		1,586			8,981
Electricity and natural gas		_								5,138			5,138
Total		16,505	1	2,586		7,452		5,747		6,724			49,014
Other revenues		951		26		1,202		14		289	19	9,087	21,569
	\$	17,456	\$ 1	2,612	\$	8,654	\$	5,761	\$	7,013	\$ 19	9,087	\$ 70,583

Nine months ending September 30, 2021

Manufactured products:							
Industrial and commercial products	\$ 16,549	\$	\$ 142	\$ —	\$	\$	\$ 16,691
Building products	14,518	—	_	—	—	—	14,518
Consumer products	13,525				_	—	13,525
Grocery and convenience store distribution	—	23,104	_	—	—	—	23,104
Food and beverage distribution		12,838		_	_	_	12,838
Auto sales	_	_	7,485	_	_	_	7,485
Other retail and wholesale distribution	2,199		11,577	_	_	_	13,776
Service	1,099	509	3,060	16,875	4,219	—	25,762
Electricity and natural gas	 				14,048		14,048
Total	47,890	36,451	22,264	16,875	18,267	_	141,747
Other revenues	 2,821	78	3,287	42	755	55,566	62,549
	\$ 50,711	\$ 36,529	\$ 25,551	\$ 16,917	\$ 19,022	\$ 55,566	\$204,296

Note 22. Revenues from contracts with customers (Continued)

	Mar	ufacturing	McLane Company	Service and Retailing		BNSF	н	erkshire athaway Energy	Insurance, Corporate and Other	Total
Three months ending September 30, 2020		0	`		0_					
Manufactured products:										
Industrial and commercial products	\$	4,889	\$	\$	54	\$ 	\$		\$	\$ 4,943
Building products		4,322	—					—	—	4,322
Consumer products		4,036	_						_	4,036
Grocery and convenience store distribution			7,905						—	7,905
Food and beverage distribution			3,968						_	3,968
Auto sales		—	—		2,195			—	—	2,195
Other retail and wholesale distribution		599	_		3,182				_	3,781
Service		370	144		865	5,135		1,474	—	7,988
Electricity and natural gas								4,356		4,356
Total		14,216	12,017		6,296	5,135		5,830	—	43,494
Other revenues		929	23		966	14		396	17,202	19,530
	\$	15,145	\$ 12,040	\$	7,262	\$ 5,149	\$	6,226	\$ 17,202	\$ 63,024
Nine months ending September 30, 2020										
Manufactured products:										
Industrial and commercial products	\$	15,639	\$	\$	143	\$ 	\$		\$ —	\$ 15,782
Building products		11,682	—					—	—	11,682
Consumer products		10,373	_						—	10,373
Grocery and convenience store distribution			23,051						—	23,051
Food and beverage distribution			11,561						_	11,561
Auto sales			_		5,999				_	5,999
Other retail and wholesale distribution		1,691	_		8,735				_	10,426
Service		1,105	398		2,460	15,059		3,238	_	22,260
Electricity and natural gas			_					11,190	_	11,190
Total		40,490	35,010		17,337	15,059	-	14,428	_	122,324
Other revenues		2,686	69		2,884	42		964	52,160	58,805
	\$	43,176	\$ 35,079	\$	20,221	\$ 15,101	\$	15,392	\$ 52,160	\$181,129

A summary of the transaction price allocated to the significant unsatisfied remaining performance obligations relating to contracts with expected durations in excess of one year as of September 30, 2021 and the timing of when the performance obligations are expected to be satisfied follows (in millions).

	Le	Less than		eater than			
	12	months	12	2 months	Total		
Electricity and natural gas	\$	2,761	\$	21,377	\$	24,138	
Other sales and service contracts		1,402		2,203		3,605	

Note 23. Business segment data

Our operating businesses include a large and diverse group of insurance, manufacturing, service and retailing businesses. We organize our reportable business segments in a manner that reflects how management views those business activities. Certain businesses are grouped together for segment reporting based upon similar products or product lines and marketing, selling and distribution characteristics, even though those business units are operated under separate local management. Revenues and earnings before income taxes by segment for the third quarter and first nine months of 2021 and 2020 were as follows (in millions).

	 Third (Quart	er	First Nine Months			
	 2021		2020	2021			2020
Revenues of Operating Businesses							
Insurance:							
Underwriting:							
GEICO	\$ 9,604	\$	8,540	\$	28,073	\$	26,689
Berkshire Hathaway Primary Group	2,964		2,490		8,373		7,103
Berkshire Hathaway Reinsurance Group	5,159		4,883		14,868		13,464
Investment income	1,339		1,223		4,212		4,486
Total insurance	19,066		17,136		55,526		51,742
BNSF	5,790		5,176		17,000		15,195
Berkshire Hathaway Energy	7,013		6,226		19,022		15,392
Manufacturing	17,496		15,170		50,821		43,238
McLane Company	12,612		12,040		36,529		35,079
Service and retailing	8,679		7,279		25,614		20,272
	70,656		63,027		204,512		180,918
Reconciliation of segments to consolidated amount							
Corporate, eliminations and other	(73)		(3)		(216)		211
	\$ 70,583	\$	63,024	\$	204,296	\$	181,129

	Third Quarter				First Nin		
		2021	2020		2021		2020
Earnings Before Income Taxes of Operating Businesses							
Insurance:							
Underwriting:							
GEICO	\$	(289)	\$ 276	\$	1,360	\$	3,320
Berkshire Hathaway Primary Group		(23)	(126)		349		(63)
Berkshire Hathaway Reinsurance Group		(708)	(441)		(1,298)		(2,033)
Investment income		1,337	1,220		4,205		4,480
Total insurance		317	929		4,616		5,704
BNSF		2,029	1,777		5,667		4,855
Berkshire Hathaway Energy		1,375	1,122		2,797		2,074
Manufacturing		2,445	2,255		7,595		5,765
McLane Company		(8)	96		179		205
Service and retailing		1,110	779		3,234		1,745
		7,268	6,958		24,088		20,348
Reconciliation of segments to consolidated amount							
Investment and derivative gains		4,921	31,582		38,015		1,392
Interest expense, not allocated to segments		(128)	(116)		(386)		(363)
Equity method investments		377	290		775		333
Goodwill and intangible impairments			(25)				(10,659)
Corporate, eliminations and other		46	(759)		241		(761)
	\$	12,484	\$ 37,930	\$	62,733	\$	10,290

Results of Operations

Net earnings attributable to Berkshire Hathaway shareholders are disaggregated in the table that follows. Amounts are after deducting income taxes and exclude earnings attributable to noncontrolling interests (in millions).

	Third Quarter				First Nin	nths	
	2021		2020	2020			2020
Insurance – underwriting	\$	(784) \$	(213)	\$	356	\$	956
Insurance – investment income		1,161	1,015		3,588		3,769
Railroad		1,538	1,347		4,305		3,668
Utilities and energy		1,496	1,395		2,939		2,589
Manufacturing, service and retailing		2,706	2,346		8,329		5,833
Investment and derivative contract gains/losses		3,878	24,737		29,979		765
Other*		349	(490)		653		(10,894)
Net earnings attributable to Berkshire Hathaway shareholders	\$	10,344 \$	30,137	\$	50,149	\$	6,686

* Includes goodwill and indefinite-lived asset impairment charges of \$11.0 billion in the first nine months of 2020, substantially all of which was recorded in the second quarter.

Through our subsidiaries, we engage in numerous diverse business activities. We manage our operating businesses on an unusually decentralized basis. There are few centralized or integrated business functions. Our senior corporate management team participates in and is ultimately responsible for significant capital allocation decisions, investment activities and the selection of the Chief Executive to head each of the operating businesses. The business segment data (Note 23 to the accompanying Consolidated Financial Statements) should be read in conjunction with this discussion.

The COVID-19 pandemic negatively affected most of our operating businesses beginning in March of 2020, with the effects to date ranging from relatively minor to severe. Earnings of most of our manufacturing, service and retailing businesses declined considerably, and in certain instances severely, in the second quarter of 2020. Over the second half of 2020 and continuing in 2021, many of these businesses experienced significant recoveries in revenues and earnings, in some instances exceeding pre-pandemic levels. However, many of our businesses were negatively affected by ongoing global supply chain disruptions, including those attributable to major winter storms and a hurricane in North America, which contributed to higher input costs. We cannot reliably predict future economic effects of the pandemic or when business activities at our operations will completely normalize. Nor can we predict how these events will alter the future consumption patterns of consumers and businesses we serve.

Insurance underwriting produced after-tax losses of \$784 million in the third quarter and earnings of \$356 million in the first nine months of 2021. After-tax incurred losses from significant catastrophe events were approximately \$1.7 billion in the third quarter and \$2.2 billion in the first nine months of 2021, which were partly offset by reductions in incurred losses for prior accident years' loss events. Underwriting results in 2021 also reflected earned premium reductions from the GEICO Giveback program, higher private passenger auto claims frequencies and higher losses in the life reinsurance business. After-tax earnings from insurance investment income increased 14.4% in the third quarter and decreased 4.8% in the first nine months of 2021 as compared to 2020, reflecting lower interest income and higher dividend income in both periods.

After-tax earnings of our railroad business increased 14.2% in the third quarter and 17.4% in the first nine months of 2021 compared to 2020. The increases reflected overall higher freight volumes and lower costs due to improved productivity, partly offset by higher average fuel costs. After-tax earnings of our utilities and energy business increased 7.2% in the third quarter and 13.5% in the first nine months of 2021 compared to 2020. The year-to-date increase reflected increased earnings from the utilities and natural gas pipelines businesses, including the effects of a business acquisition, and from the real estate brokerage business. Earnings from our manufacturing, service and retailing businesses increased 15.3% in the third quarter and 42.8% in the first nine months of 2021 versus 2020. Many of our businesses generated significantly higher earnings over the first half of 2021 compared to 2020, which included significant adverse effects from the pandemic. While customer demand for products remained relatively high, earnings in the third quarter of 2021 were sequentially lower than the second quarter. Several of our businesses experienced higher materials, freight and other input costs attributable to ongoing disruptions in global supply chains.

Investment and derivative gains and losses in 2021 and 2020 predominantly derived from our investments in equity securities and included significant unrealized gains and losses from market price changes. We believe that investment and derivative gains/losses, whether realized from dispositions or unrealized from changes in market prices of equity securities, are generally meaningless in understanding our reported results or evaluating the economic performance of our businesses. These gains and losses have caused and will continue to cause significant volatility in our periodic earnings.

Insurance—Underwriting

Our management views our insurance businesses as possessing two distinct activities – underwriting and investing. Underwriting decisions are the responsibility of the unit managers, while investing decisions are the responsibility of Berkshire's Chairman and CEO, Warren E. Buffett and Berkshire's corporate investment managers. Accordingly, we evaluate performance of underwriting operations without any allocation of investment income or investment gains and losses. We consider investment income as an integral component of our aggregate insurance operating results. However, we consider investment gains and losses, whether realized or unrealized as non-operating. We believe that such gains and losses are not meaningful in understanding the operating results of our insurance businesses.

The timing and magnitude of catastrophe losses can produce significant volatility in our periodic underwriting results, particularly with respect to our reinsurance businesses. Generally, we consider incurred losses in excess of \$100 million from a current year catastrophic event to be significant. The significant catastrophe events in 2021 included Hurricane Ida and floods in Europe in the third quarter, as well as Winter Storm Uri in the first quarter.

Changes in estimates for unpaid losses and loss adjustment expenses, including amounts established for occurrences in prior years, can also significantly affect our periodic underwriting results. Unpaid loss estimates, including estimates under retroactive reinsurance contracts, were approximately \$125.5 billion as of September 30, 2021. Our periodic underwriting results may also include significant foreign currency transaction gains and losses arising from the changes in the valuation of non-U.S. Dollar denominated liabilities of our U.S.-based insurance subsidiaries due to foreign currency exchange rate fluctuations.

Underwriting results for certain of our commercial insurance and reinsurance businesses were negatively affected in 2021 and 2020 by estimated losses and costs associated with the COVID-19 pandemic, including estimated provisions for claims and uncollectible premiums and incremental operating costs to maintain customer service levels. The effects of the pandemic in future periods may be affected by judicial rulings and regulatory and legislative actions pertaining to insurance coverage and claims and by its effects on general economic activity, which we cannot reasonably estimate at this time.

Underwriting results of our insurance businesses are summarized below (dollars in millions).

		Third Q	Juarter	First Nine Months			
	2021		2020	2020		2020	
Pre-tax underwriting earnings (loss):							
GEICO	\$	(289)	\$ 276	\$	1,360 \$	\$ 3,320	
Berkshire Hathaway Primary Group		(23)	(126)		349	(63)	
Berkshire Hathaway Reinsurance Group		(708)	(441)		(1,298)	(2,033)	
Pre-tax underwriting earnings		(1,020)	(291)		411	1,224	
Income taxes and noncontrolling interests		(236)	(78)		55	268	
Net underwriting earnings (loss)	\$	(784)	\$ (213)	\$	356 \$	\$ 956	
Effective income tax rate		23.0%	26.69	6	13.6%	21.9%	

GEICO

GEICO writes private passenger automobile insurance, offering coverages to insureds in all 50 states and the District of Columbia. GEICO markets its policies mainly by direct response methods where most customers apply for coverage directly to the company via the Internet or over the telephone. A summary of GEICO's underwriting results follows (dollars in millions).

		Third (Quarter			First Nin	e Months	
	202	1	202	0	202	21	202	0
	Amount	%	Amount	%	Amount	%	Amount	%
Premiums written	\$10,097		\$ 8,446		\$ 29,333		\$26,217	
Premiums earned	\$ 9,604	100.0	\$ 8,540	100.0	\$ 28,073	100.0	\$ 26,689	100.0
Losses and loss adjustment expenses	8,486	88.4	6,858	80.3	22,566	80.4	19,238	72.1
Underwriting expenses	1,407	14.6	1,406	16.5	4,147	14.8	4,131	15.5
Total losses and expenses	9,893	103.0	8,264	96.8	26,713	95.2	23,369	87.6
Pre-tax underwriting earnings (loss)	<u>\$ (289</u>)		<u>\$ 276</u>		\$ 1,360		\$ 3,320	

Insurance—Underwriting (Continued)

GEICO (Continued)

GEICO's pre-tax underwriting earnings in 2021 and 2020 were significantly affected by changes in average claims frequencies. Beginning in the first quarter of 2020 and continuing through the first quarter of 2021, average claims frequencies were significantly below historical levels from the effects of less driving by policyholders during the COVID-19 pandemic. These effects were partially offset by lower premiums earned from the GEICO Giveback program and higher average claims severities. Starting in the second quarter of 2021, average claims frequencies began to increase as driving by policyholders increased. In addition, average property claims severities increased due to the increase in the valuation of used vehicles.

Premiums written increased \$1.7 billion (19.5%) in the third quarter and \$3.1 billion (11.9%) in the first nine months of 2021 compared to 2020. The comparative increases reflected the effects of the GEICO Giveback Program, which reduced premiums written \$1.5 billion in the third quarter and \$2.8 billion in the first nine months of 2020. The GEICO Giveback program provided a 15% premium credit to all new and renewal voluntary auto and motorcycle policies written between April 8, 2020 and October 7, 2020, and reduced premiums written by approximately \$2.9 billion over that six-month period. Voluntary auto policies-in-force increased approximately 159,000 during the first nine months of 2021.

Premiums earned increased \$1.1 billion (12.5%) in the third quarter and \$1.4 billion (5.2%) in the first nine months of 2021 compared to 2020. The GEICO Giveback premium credit reduced premiums earned approximately \$475 million in 2021 (mostly in the first quarter) and \$1.3 billion in the first nine months of 2020, including \$1.0 billion in the third quarter.

Losses and loss adjustment expenses increased \$1.6 billion (23.7%) in the third quarter and \$3.3 billion (17.3%) in the first nine months of 2021 compared to 2020. GEICO's ratio of losses and loss adjustment expenses to premiums earned increased 8.1 percentage points in the third quarter and 8.3 percentage points in the first nine months of 2021 compared to the same periods in 2020. The increases reflected overall increases in average claims frequencies and severities and approximately \$400 million in pre-tax losses attributable to Hurricane Ida, partially offset by increased reductions of claim loss estimates for prior years' loss events.

Claims frequencies in the first nine months of 2021 were higher for all coverages, including property damage (twelve to thirteen percent range), bodily injury (thirteen to fourteen percent range), personal injury (sixteen to seventeen percent range) and collision (twenty-one to twenty-two percent range). Average claims severities in the first nine months of 2021 were higher for property damage coverage (four to five percent range), collision coverage (thirteen to fourteen percent range) and bodily injury coverage (ten to twelve percent range). Ultimate claim loss estimates for prior years' loss events were reduced approximately \$1.2 billion in the first nine months of 2021, which produced corresponding reductions in losses and loss adjustment expenses. The effects of changes in estimates for prior years' loss events were relatively insignificant in the first nine months of 2020.

Underwriting expenses were relatively flat in the first nine months of 2021 compared to 2020, reflecting higher technology costs, offset by lower advertising and employee-related expenses. GEICO's expense ratio (underwriting expense to premiums earned) decreased 0.7 percentage points in the first nine months of 2021 compared to 2020, reflecting the increase in premiums earned.

Berkshire Hathaway Primary Group

The Berkshire Hathaway Primary Group ("BH Primary") provides a variety of commercial insurance solutions, including healthcare malpractice, workers' compensation, automobile, general liability, property and specialty coverages for small, medium and large clients. BH Primary insurers include Berkshire Hathaway Specialty Insurance ("BH Specialty"), Berkshire Hathaway Homestate Companies ("BHHC"), MedPro Group, Berkshire Hathaway GUARD Insurance Companies ("GUARD"), National Indemnity Company ("NICO Primary"), U.S. Liability Insurance Company ("USLI"), Central States Indemnity Company and MLMIC Insurance Company. A summary of BH Primary underwriting results follows (dollars in millions).

		Third (Quarter		First Nine Months						
	202	1	2020)	202	1	202	0			
	Amount	%	Amount	%	Amount	%	Amount	%			
Premiums written	\$ 3,506		\$ 3,003		\$ 9,357		\$ 7,607				
Premiums earned	\$ 2,964	100.0	\$ 2,490	100.0	\$ 8,373	100.0	\$ 7,103	100.0			
Losses and loss adjustment expenses	2,240	75.6	1,976	79.4	6,044	72.2	5,369	75.6			
Underwriting expenses	747	25.2	640	25.7	1,980	23.6	1,797	25.3			
Total losses and expenses	2,987	100.8	2,616	105.1	8,024	95.8	7,166	100.9			
Pre-tax underwriting earnings (loss)	<u>\$ (23</u>)		<u>\$ (126</u>)		<u>\$ 349</u>		<u>\$ (63</u>)				

Insurance—Underwriting (Continued)

Berkshire Hathaway Primary Group (Continued)

Premiums written increased \$503 million (16.7%) in the third quarter and \$1.8 billion (23.0%) in the first nine months of 2021 compared to 2020, primarily attributable to a 42% year-to-date increase from BH Specialty in professional liability, casualty and property lines of business. In addition, several of our other underwriting units experienced year-to-date premiums written increases, including MedPro Group (19%), NICO Primary (32%), GUARD (8%) and USLI (20%) in various coverages and markets, partly offset by lower volumes for workers' compensation business.

BH Primary's loss ratio declined 3.8 percentage points in the third quarter and 3.4 percentage points in the first nine months of 2021 versus 2020. The year-to-date decline reflected increased reductions in estimated ultimate liabilities for prior years' loss events of \$420 million in 2021 compared to \$190 million in 2020. Losses and loss adjustment expenses in 2021 from significant catastrophe events were approximately \$260 million in the third quarter and \$420 million in the first nine months, arising primarily from Hurricane Ida in the third quarter and Winter Storm Uri in the first quarter. Incurred losses in the first nine months of 2020 included approximately \$400 million attributable to the pandemic and Hurricanes Laura and Sally in the third quarter. BH Primary insurers also write significant levels of commercial and professional liability and workers' compensation business and the related claim costs may be subject to high severity and long claim-tails. Accordingly, we could experience significant rulings and other factors not currently anticipated.

Underwriting expenses in the third quarter and first nine months of 2021 increased \$107 million (16.7%) and \$183 million (10.2%), respectively, compared to 2020. The expense ratio decreased 1.7 percentage points in the first nine months of 2021, reflecting changes in business mix.

Berkshire Hathaway Reinsurance Group

The Berkshire Hathaway Reinsurance Group ("BHRG") offers excess-of-loss and quota-share reinsurance coverages on property and casualty risks to insurers and reinsurers worldwide through several subsidiaries, led by National Indemnity Company ("NICO"), General Reinsurance Corporation and General Reinsurance AG. We also offer life and health reinsurance coverages through General Re Life Corporation, General Reinsurance AG and Berkshire Hathaway Life Insurance Company of Nebraska ("BHLN"). We periodically assume property and casualty risks under retroactive reinsurance contracts written through NICO. In addition, we write periodic payment annuity contracts through BHLN.

Generally, we strive to generate underwriting profits. However, time-value-of-money concepts are important elements in establishing prices for retroactive reinsurance and periodic payment annuity businesses due to the expected long durations of the liabilities. We expect to incur pre-tax underwriting losses from such businesses, primarily through deferred charge amortization and discount accretion charges. We receive premiums at the inception of these contracts, which are then available for investment. A summary of Berkshire Hathaway Reinsurance Group's underwriting results follows (in millions).

		Third (Juarter		First Nine Months						
	Premium	is earned	Pre-tax und earning	0	Premiun	ns earned	Pre-tax underwriting earnings (loss)				
	2021	2020	2021	2020	2021	2020	2021	2020			
Property/casualty	\$ 3,637	\$ 3,428	\$ (247)	\$ 99	\$10,385	\$ 8,859	\$ 121	\$ (706)			
Life/health	1,328	1,378	(181)	17	3,932	4,147	(522)	63			
Retroactive reinsurance	_	5	(158)	(394)	82	39	(620)	(896)			
Periodic payment annuity	191	68	(94)	(209)	458	409	(374)	(411)			
Variable annuity	3	4	(28)	46	11	10	97	(83)			
	\$ 5,159	\$ 4,883	\$ (708)	<u>\$ (441</u>)	\$14,868	\$13,464	\$ (1,298)	\$ (2,033)			

Insurance—Underwriting (Continued)

Berkshire Hathaway Reinsurance Group (Continued)

Property/casualty

A summary of property/casualty reinsurance underwriting results follows (dollars in millions).

		Third (Quarter		First Nine Months					
	202	1	202	0	202	1	202	0		
	Amount	%	Amount	%	Amount	%	Amount	%		
Premiums written	<u>\$ 4,115</u>		\$ 3,960		\$11,924		\$11,011			
Premiums earned	\$ 3,637	100.0	\$ 3,428	100.0	\$ 10,385	100.0	\$ 8,859	100.0		
Losses and loss adjustment expenses	2,986	82.1	2,544	74.2	7,689	74.0	7,241	81.7		
Underwriting expenses	898	24.7	785	22.9	2,575	24.8	2,324	26.3		
Total losses and expenses	3,884	106.8	3,329	97.1	10,264	98.8	9,565	108.0		
Pre-tax underwriting earnings (loss)	<u>\$ (247)</u>		<u>\$ 99</u>		\$ 121		<u>\$ (706</u>)			

Premiums written increased \$155 million (3.9%) in the third quarter and \$913 million (8.3%) in the first nine months of 2021 compared to the same periods in 2020. The increases reflected net new business, increased participations on renewals, improved prices and favorable foreign currency translation effects.

Losses and loss adjustment expenses increased \$442 million (17.4%) in the third quarter and \$448 million (6.2%) in the first nine months of 2021 compared to 2020. The loss ratio increased 7.9 percentage points in the third quarter and decreased 7.7 percentage points in the first nine months of 2021 compared to 2020. Losses and loss adjustment expenses in 2021 included provisions for estimated liabilities arising from significant catastrophe events of approximately \$1.5 billion in the third quarter and \$1.9 billion in the first nine months. These provisions were attributable to Hurricane Ida and flooding in Europe in the third quarter and Winter Storm Uri in the first quarter. Estimated losses attributable to significant catastrophes in 2020 were approximately \$300 million and derived from Hurricanes Laura and Sally in the third quarter.

Losses incurred in the first nine months of 2021 also included \$564 million from a net decrease in estimated ultimate liabilities for prior years' loss events. Losses and loss adjustment expenses in 2020 included a year-to-date net increase in estimated ultimate liabilities for prior years' loss events of \$342 million and losses attributable to the COVID-19 pandemic of \$113 million in the third quarter and \$688 million in the first nine months.

Underwriting expenses are primarily commissions and brokerage costs. The expense ratio in 2021 increased 1.8 percentage points in the third quarter and decreased 1.5 percentage points in the first nine months compared to the same periods in 2020, attributable to changes in business mix.

Life/health

A summary of our life/health reinsurance underwriting results follows (dollars in millions).

		Third (Quarter		First Nine Months						
	202	1	202	.0	202	1	202	0			
	Amount	%	Amount	%	Amount	%	Amount	%			
Premiums written	\$ 1,332		\$ 1,383		\$ 3,929		\$ 4,153				
Premiums earned	\$ 1,328	100.0	\$ 1,378	100.0	\$ 3,932	100.0	\$ 4,147	100.0			
Life and health insurance benefits	1,247	93.9	1,142	82.9	3,733	94.9	3,328	80.3			
Underwriting expenses	262	19.7	219	15.9	721	18.4	756	18.2			
Total benefits and expenses	1,509	113.6	1,361	98.8	4,454	113.3	4,084	98.5			
Pre-tax underwriting earnings (loss)	<u>\$ (181</u>)		\$ 17		<u>\$ (522</u>)		\$ 63				

Life/health premiums written decreased 3.7% in the third quarter and 5.4% in the first nine months of 2021 compared to 2020. Premiums written in 2020 included \$131 million in the third quarter and \$497 million in the first nine months from a policy that covered U.S. health insurance risks that did not renew in 2021. Otherwise, premiums written in the first nine months of 2021 increased 7.7% versus 2020, primarily due to favorable foreign currency translation effects. Underwriting results in the third quarter and first nine months of 2021 were negatively affected by significant increases in mortality in the U.S., South Africa, India and Latin America due to the pandemic. Underwriting results in 2020 reflected COVID-19-related claim estimates of \$68 million in the third quarter and \$172 million in the first nine months, as well as from increased liabilities from changes in underlying assumptions in estimating disability benefit liabilities in Australia.

Insurance—Underwriting (Continued)

Berkshire Hathaway Reinsurance Group (Continued)

Retroactive reinsurance

Pre-tax underwriting losses in each period derived from the amortization of deferred charges and changes in the estimated timing and amounts of future claim payments. Underwriting results also include foreign currency exchange gains and losses from the effects of changes in foreign currency exchange rates on non-U.S. Dollar denominated liabilities of our U.S. subsidiaries. Before foreign currency exchange effects, pre-tax underwriting losses were \$227 million in the third quarter and \$690 million in the first nine months of 2021 compared to \$282 million in the third quarter and \$874 million in the first nine months of 2020. Foreign currency exchange gains were \$69 million in the third quarter and \$70 million in the first nine months of 2021 compared to losses of \$112 million in the third quarter and \$22 million in the first nine months of 2020.

Gross unpaid losses assumed under retroactive reinsurance contracts were \$39.7 billion at September 30, 2021, declining \$1.2 billion since December 31, 2020, primarily due to loss payments. Unamortized deferred charges related to such reinsurance contracts were \$11.7 billion at September 30, 2021, a decline of \$709 million since December 31, 2020, primarily attributable to amortization. Deferred charge amortization will be charged to earnings over the expected remaining claims settlement periods.

Periodic payment annuity

Periodic payment annuity premiums earned increased \$123 million (180.9%) in the third quarter and \$49 million (12.0%) in the first nine months of 2021 compared to 2020. Periodic payment annuity business is both price and demand sensitive. Our premium volumes in 2021 and 2020 were constrained, attributable in part to pandemic related delays in underlying claim settlements, which reduced the supply of available business. The volumes written may also change rapidly due to changes in prices, which are affected by prevailing interest rates, the perceived risks and durations associated with the expected annuity payments, as well as the level of competition.

Periodic payment annuity contracts normally produce pre-tax underwriting losses deriving from the recurring discount accretion of annuity liabilities. Underwriting results also include the effects of mortality, interest rate changes that may affect expected settlements under certain contracts and gains or losses from changes in foreign currency exchange rates on non-U.S. Dollar denominated liabilities of our U.S. subsidiaries. Pre-tax underwriting results included foreign currency exchange gains of \$45 million in the third quarter and \$25 million in the first nine months of 2021 compared to losses of \$73 million in the third quarter and gains of \$38 million in the first nine months of 2020.

Excluding foreign currency exchange gains/losses, pre-tax underwriting losses were \$139 million in the third quarter and \$399 million in the first nine months of 2021 compared to \$136 million in the third quarter and \$449 million in the first nine months of 2020, which primarily derived from the recurring discount accretion of annuity liabilities. Pre-tax losses in the first nine months of 2021 were partially offset by the effects of higher mortality and the effects of higher interest rates applicable to settlements under certain contracts. Discounted annuity liabilities were \$14.8 billion at September 30, 2021, having a weighted average discount rate of approximately 3.9%.

Variable annuity

Variable annuity guarantee contracts produced pre-tax losses of \$28 million in the third quarter and earnings of \$97 million in the first nine months of 2021 compared to earnings of \$46 million in the third quarter and losses of \$83 million in the first nine months of 2020. The results from these contracts reflect changes in our estimated liabilities for underlying guaranteed benefits, which are affected by changes in securities markets and interest rates and from the periodic amortization of expected profit margins. Underwriting results from these contracts are volatile, reflecting the volatility of securities markets, interest rates and foreign currency exchange rates. The change in underwriting earnings in the first nine months of 2021 compared to 2020 was attributable to the net effects of interest rate changes and, to a lesser extent, changes in securities markets, partly offset by lower underlying lapse rate assumptions.

Insurance—Investment Income

A summary of net investment income attributable to our insurance operations follows (dollars in millions).

	Third Quarter				First Nin	e Mo	nths	Percentage Change		
		2021		2020		2021		2020	Third Quarter	First Nine Months
Interest and other investment income	\$	141	\$	196	\$	458	\$	870	(28.1)%	(47.4)%
Dividend income		1,196		1,024		3,747		3,610	16.8	3.8
Pre-tax net investment income		1,337		1,220		4,205		4,480	9.6	(6.1)
Income taxes and noncontrolling interests		176		205		617		711		
Net investment income	\$	1,161	\$	1,015	\$	3,588	\$	3,769		
Effective income tax rate		13.19	6	16.9%	6	14.79	6	15.9%		

Interest and other investment income declined \$55 million (28.1%) in the third quarter and \$412 million (47.4%) in the first nine months of 2021 compared to same periods in 2020, primarily due to lower income from short-term investments and fixed maturity securities. We continue to hold substantial balances of cash, cash equivalents and U.S. Treasury Bills. We expect that prevailing low interest rates will continue to negatively affect our earnings from such investments and from fixed maturity securities for at least the remainder of 2021. Nevertheless, we believe that maintaining ample liquidity is paramount and we insist on safety over yield with respect to short-term investments. Dividend income in 2021 included \$26 million in the third quarter and \$101 million in the first nine months from investments in preferred stock of Berkshire Hathaway Energy. Such amounts are deducted from earnings of the utilities and energy segment. Dividend income may vary from period to period due to changes in the investment portfolio and the frequency and timing of dividends from certain investees.

Invested assets of our insurance businesses derive from shareholder capital and from net liabilities under insurance and reinsurance contracts or "float." The major components of float are unpaid losses and loss adjustment expenses, including liabilities under retroactive reinsurance contracts, life, annuity and health benefit liabilities, unearned premiums and other liabilities due to policyholders, which are reduced by insurance premiums receivable, reinsurance receivables, deferred charges assumed under retroactive reinsurance contracts and deferred policy acquisition costs. Float approximated \$145 billion at September 30, 2021 and \$138 billion at December 31, 2020. Our combined insurance operations generated pre-tax underwriting earnings in the first nine months of 2021 and 2020, and consequently, the average cost of float for each period was negative.

A summary of cash and investments held in our insurance businesses as of September 30, 2021 and December 31, 2020 follows (in millions).

	Ser	2021 2021	De	cember 31, 2020	
Cash, cash equivalents and short-term investments in U.S. Treasury Bills	\$	89,098	\$	67,082	
Equity securities		296,038		269,498	
Fixed maturity securities		18,069		20,317	
Other		5,119		6,220	
	\$	408,324	\$	363,117	

Fixed maturity securities as of September 30, 2021 were as follows (in millions).

	Amortized Cost	I	Unrealized Gains	Carrying Value
U.S. Treasury, U.S. government corporations and agencies	\$ 3,349	\$	30	\$ 3,379
Foreign governments	12,406		11	12,417
Corporate bonds	1,488		430	1,918
Other	304		51	355
	\$ 17,547	\$	522	\$ 18,069

U.S. government obligations are rated AA+ or Aaa by the major rating agencies. Approximately 90% of all foreign government obligations were rated AA or higher by at least one of the major rating agencies. Foreign government securities include obligations issued or unconditionally guaranteed by national or provincial government entities.

Railroad

Burlington Northern Santa Fe, LLC ("BNSF") operates one of the largest railroad systems in North America, with approximately 32,500 route miles of track in 28 states. BNSF also operates in three Canadian provinces. BNSF classifies its major railroad business groups by type of product shipped which includes consumer products, industrial products, agricultural products and coal. A summary of BNSF's earnings follows (dollars in millions).

	 Third Q) ua	rter	First Nine Months			
	2021		2020		2021		2020
Railroad operating revenues	\$ 5,591	\$	5,001	\$	16,421	\$	14,698
Railroad operating expenses:							
Compensation and benefits	1,168		1,105		3,477		3,306
Fuel	705		394		1,948		1,335
Purchased services	510		479		1,525		1,429
Depreciation and amortization	608		616		1,832		1,836
Equipment rents, materials and other	338		393		1,262		1,219
Total	3,329		2,987		10,044		9,125
Railroad operating earnings	 2,262		2,014		6,377		5,573
Other revenues (expenses):							
Other revenues	199		175		579		497
Other expenses, net	(176)		(155)		(514)		(436)
Interest expense	(256)		(257)		(775)		(779)
Pre-tax earnings	2,029		1,777		5,667		4,855
Income taxes	491		430		1,362		1,187
Net earnings	\$ 1,538	\$	1,347	\$	4,305	\$	3,668
Effective income tax rate	 24.2%	_	24.2%		24.0%		24.5%

The following table summarizes BNSF's railroad freight volumes by business group (cars/units in thousands).

	Third (Quarter	First Ni	ne Months	Percentage Change			
	2021	2020	2021	2020	Third Quarter	First Nine Months		
Consumer products	1,425	1,390	4,307	3,766	2.5%	14.4%		
Industrial products	443	388	1,280	1,218	14.2	5.1		
Agricultural products	265	293	896	855	(9.6)	4.8		
Coal	404	360	1,127	1,036	12.2	8.8		
	2,537	2,431	7,610	6,875	4.4	10.7		

Railroad operating revenues increased 11.8% in the third quarter and 11.7% in the first nine months of 2021 compared to 2020. Railroad operating revenues in 2021 reflected higher volumes of 4.4% in the third quarter and 10.7% in the first nine months, as well as a 5.3% quarter-to-date and a 0.3% year-to-date increase in average revenue per car/unit. Higher rates per car/unit and increased fuel surcharges, principally from higher fuel prices, were offset by business mix changes. Pre-tax earnings were \$2.0 billion and \$5.7 billion in the third quarter and first nine months of 2021, respectively, increases of 14.2% and 16.7%, respectively, compared to the corresponding 2020 periods. The COVID-19 pandemic caused a significant economic slowdown that adversely affected our volumes in 2020. Revenue changes were driven by continued improvements from the 2020 effects of the COVID-19 pandemic, partially offset by the ongoing disruptions in the global supply chain.

Operating revenues from consumer products were \$2.1 billion in the third quarter and \$6.1 billion in the first nine months of 2021, increases of 11.2% and 16.3%, respectively, from 2020. Volumes increased 2.5% in the third quarter and 14.4% in the first nine months of 2021, with a higher average revenue per car/unit in both periods. The volume increases for the first nine months of 2021 resulted from growth in intermodal in both international and domestic shipments driven by increased retail sales, inventory replenishments by retailers and increased e-commerce activity, as well as from growth in automotive shipments.

Railroad (Continued)

Operating revenues from industrial products were \$1.4 billion in the third quarter and \$3.9 billion in the first nine months of 2021, increases of 15.2% and 3.5%, respectively, from 2020. Volumes increased 14.2% in the third quarter and 5.1% in the first nine months, with a higher average revenue per car/unit in the third quarter and a lower average revenue per car/unit in the first nine months of 2021. The volume increases were primarily due to improvement in the U.S. industrial economy, driving higher volumes in the construction and building sectors, partially offset by lower petroleum volumes due to unfavorable market conditions in the energy sector.

Operating revenues from agricultural products decreased 10.4% in the third quarter to \$1.1 billion and increased 7.1% to \$3.6 billion in the first nine months of 2021, compared to the same periods in 2020. The revenue changes reflected volume decreases of 9.6% in the third quarter due to lower grain exports and lower average revenue per car/unit. Volumes increased 4.8% in the first nine months due to higher domestic and export grain shipments, higher volumes of ethanol and related commodities and higher revenue per car/unit.

Operating revenues from coal were \$867 million in the third quarter and \$2.3 billion in the first nine months of 2021, increases of 33.2% and 18.5%, respectively, from 2020, attributable to higher volumes of 12.2% in the third quarter and 8.8% in the first nine months, as well as from higher average revenue per car/unit. Volume increases in 2021 were attributable to increased electricity generation, higher natural gas prices and improved export demand.

Railroad operating expenses were \$3.3 billion in the third quarter and \$10.0 billion in the first nine months of 2021, increases of \$342 million (11.4%) and \$919 million (10.1%), respectively, compared to the same periods in 2020. The ratio of railroad operating expenses to railroad operating revenues decreased 0.2 percentage points to 59.5% in the third quarter and 0.9 percentage points to 61.2% in the first nine months of 2021 versus the 2020 periods. The increases in railroad operating expenses reflected higher volumes and higher average fuel prices, partially offset by productivity improvements.

Compensation and benefits expenses increased \$63 million (5.7%) in the third quarter and \$171 million (5.2%) in the first nine months of 2021 compared to 2020. The increases were primarily due to increased volumes, partially offset by productivity improvements. Fuel expenses increased \$311 million (78.9%) in the third quarter and \$613 million (45.9%) in the first nine months of 2021 compared to 2020, primarily due to higher average fuel prices. Purchased service expenses increased \$31 million (6.5%) in the third quarter and \$96 million (6.7%) in the first nine months of 2021 compared to 2020, primarily due to 2019 flooding, partially offset by improved productivity. Equipment rents, materials and other expenses decreased \$55 million (14.0%) in the third quarter, primarily due to a gain on land sale, and increased \$43 million (3.5%) in the first nine months of 2020 due to higher volume-related costs.

Utilities and Energy

We currently own 91.1% of the outstanding common stock of Berkshire Hathaway Energy Company ("BHE"), which operates a global energy business. BHE's domestic regulated utility interests are comprised of PacifiCorp, MidAmerican Energy Company ("MEC") and NV Energy. In Great Britain, BHE subsidiaries operate two regulated electricity distribution businesses referred to as Northern Powergrid. BHE's natural gas pipelines consist of five domestic regulated interstate natural gas pipeline systems and a 25% interest in a liquefied natural gas export, import and storage facility ("LNG interest"), which BHE operates and consolidates for financial reporting purposes. Three of the natural gas pipeline systems and the LNG interest were acquired on November 1, 2020 from Dominion Energy, Inc. ("BHE GT&S"). Other energy businesses include a regulated electricity transmission-only business in Alberta, Canada ("AltaLink, L.P.") and a diversified portfolio of mostly renewable independent power projects and investments. BHE also operates the largest residential real estate brokerage firm and one of the largest residential real estate brokerage franchise networks in the United States.

Utilities and Energy (Continued)

The rates our regulated businesses charge customers for energy and services are based in large part on the costs of business operations, including income taxes and a return on capital, and are subject to regulatory approval. To the extent such costs are not allowed in the approved rates, operating results will be adversely affected. A summary of BHE's net earnings follows (dollars in millions).

	 Third ()uarte	r	First Nine Months			
	2021		2020	2021			2020
Revenues:							
Energy operating revenue	\$ 5,225	\$	4,451	\$	14,375	\$	11,504
Real estate operating revenue	1,743		1,742		4,738		3,828
Other income (loss)	45		33		(91)		60
Total revenue	 7,013		6,226		19,022		15,392
Costs and expense:							
Energy cost of sales	1,385		1,169		4,064		3,095
Energy operating expense	2,132		1,952		6,302		5,301
Real estate operating costs and expense	1,608		1,503		4,312		3,492
Interest expense	513		480		1,547		1,430
Total costs and expense	5,638		5,104		16,225		13,318
Pre-tax earnings	1,375		1,122		2,797		2,074
Income tax expense (benefit)*	 (398)		(412)		(842)		(778)
Net earnings after income taxes	1,773		1,534		3,639		2,852
Noncontrolling interests of BHE subsidiaries	103		4		311		11
Net earnings attributable to BHE	1,670		1,530		3,328		2,841
Noncontrolling interests and preferred stock dividends	 174		135		389		252
Net earnings attributable to Berkshire Hathaway shareholders	\$ 1,496	\$	1,395	\$	2,939	\$	2,589
Effective income tax rate	 (28.9)%)	(36.7)%	ó	(30.1)%		(37.5)%

* Includes significant production tax credits from wind-powered electricity generation.

The discussion of BHE's operating results is based on after-tax earnings, reflecting how the energy businesses are managed and evaluated. A summary of net earnings attributable to BHE follows (in millions).

	Third Quarter				First Nine	e Mo	nths	Percentage Change		
	2021		2020		2021		2020	Third Quarter	First Nine Months	
PacifiCorp	\$ 333	\$	286	\$	728	\$	629	16.4%	15.7%	
MidAmerican Energy Company	373		337		728		695	10.7	4.7	
NV Energy	282		249		416		367	13.3	13.4	
Northern Powergrid	83		26		162		172	219.2	(5.8)	
Natural gas pipelines	144		78		627		321	84.6	95.3	
Other energy businesses	230		207		521		527	11.1	(1.1)	
Real estate brokerage	102		177		321		246	(42.4)	30.5	
Corporate interest and other	123		170		(175)		(116)	(27.6)	50.9	
	\$ 1,670	\$	1,530	\$	3,328	\$	2,841	9.2	17.1	

PacifiCorp operates a regulated electric utility in portions of several Western states, including Utah, Oregon and Wyoming. After-tax earnings increased \$47 million in the third quarter and \$99 million in the first nine months of 2021 as compared to 2020. These increases reflected higher utility margin (operating revenue less cost of sales), lower operating expenses in the third quarter and increased income tax benefits from the impacts of ratemaking as well as higher production tax credits recognized on new wind-powered generating facilities placed in-service. The earnings increases were partially offset by higher year-to-date operating expenses and lower allowances for equity and borrowed funds used during construction. The comparative changes in operating expenses reflected increased depreciation expense from the impacts of a deprecation study effective January 1, 2021, and additional assets placed in-service, offset by costs recognized in the third quarter of 2020 associated with a settlement agreement and wildfires.

Utilities and Energy (Continued)

PacifiCorp's utility margin was approximately \$1.0 billion in the third quarter and \$2.7 billion in the first nine months of 2021, increases of \$6 million and \$131 million, respectively, from the comparable periods in 2020. These increases reflected higher retail revenue from increases in customer volumes and higher wholesale and other revenue, partially offset by higher thermal generation and purchased power costs. Retail customer volumes increased 2.1% in the third quarter and 4.4% in the first nine months of 2021 as compared to 2020, primarily due to higher customer usage, a favorable impact of weather and an increase in the average number of customers.

MEC operates a regulated electric and natural gas utility primarily in Iowa and Illinois. After-tax earnings increased \$36 million in the third quarter and \$33 million in the first nine months of 2021 compared to 2020. These increases reflected higher electric utility margin and increased income tax benefits, partly offset by higher operating expenses. The increases in operating expenses included incremental costs associated with additional wind-powered generating facilities placed in-service and higher natural gas distribution costs, partially offset by storm restoration costs recognized in the third quarter of 2020. The income tax benefit increases were mainly due to higher production tax credits recognized on new wind-powered generating facilities placed in-service, partially offset by the impacts of ratemaking.

MEC's electric utility margin was \$691 million in the third quarter and \$1.6 billion in the first nine months of 2021, increases of 13% and 8%, respectively, versus 2020. These increases were attributable to higher operating revenue from wholesale and retail customer volumes, partially offset by higher thermal generation and purchased power costs. Electric retail customer volumes increased 5.6% in the third quarter and 6.5% in the first nine months of 2021 as compared to 2020, primarily due to increased usage by certain industrial customers and the favorable impacts of weather.

NV Energy operates regulated electric and natural gas utilities in Nevada. After-tax earnings increased \$33 million in the third quarter and \$49 million in the first nine months of 2021 compared to 2020. These increases reflected lower operating expenses, lower interest expense and lower income tax expense from the impacts of ratemaking, partially offset by lower electric utility margin. The decreases in operating expenses were mainly due to lower comparative accruals for earnings sharing, partially offset by higher depreciation expense from additional assets placed in-service.

NV Energy's electric utility margin was \$621 million in the third quarter and \$1.3 billion in the first nine months of 2021, decreases of 6% and 4%, respectively, compared to 2020. These decreases were primarily due to revenue reductions from lower base tariff general rates and a favorable regulatory decision in 2020, partially offset by a 4.2% increase in electric retail customer volumes for the first nine months of 2021, price impacts from changes in sales mix and an increase in the average number of customers. The increase in electric retail customer volumes was primarily due to higher customer usage and the favorable impacts of weather.

Northern Powergrid's after-tax earnings increased \$57 million in the third quarter and decreased \$10 million in the first nine months of 2021 as compared to 2020. These changes reflected the impacts of changes in the United Kingdom corporate income tax rate, higher distribution revenue, mainly from increased tariff rates and units distributed, and from favorable foreign currency exchange rate movements in 2021. Earnings in the first nine months of 2021 included deferred income tax expense of \$109 million related to the enactment in June 2021 of an increase in the income tax rate from 19% to 25%, effective April 1, 2023, while earnings in each period of 2020 included deferred income tax expense of \$35 million related to the enactment in July 2020 of an increase in the income tax rate from 17% to 19%, effective April 1, 2020.

Natural gas pipelines' after-tax earnings increased \$66 million in the third quarter and \$306 million in the first nine months of 2021 compared to 2020. Earnings in 2021 from BHE GT&S were \$74 million in the third quarter and \$247 million in the first nine months. In addition, year-to-date earnings increased from the effects of higher margins on natural gas sales and higher transportation revenue at Northern Natural Gas, largely due to increased demand from the February 2021 winter storms.

Other energy businesses' after-tax earnings increased \$23 million in the third quarter and decreased \$6 million in the first nine months of 2021 compared to 2020. The third quarter earnings increase was mainly due to higher operating revenue from a transmission investment. The decrease in year-to-date earnings was primarily due to a decline in wind tax equity investment earnings of \$48 million, partially offset by higher operating revenue from owned renewable energy projects. The decrease in wind tax equity investment earnings was primarily due to increased losses from preexisting tax equity investments of \$123 million, largely attributable to the February 2021 winter storms, partially offset by increased income tax benefits from projects reaching commercial operation over the past twelve months.

Utilities and Energy (Continued)

Real estate brokerage after-tax earnings decreased \$75 million in the third quarter and increased \$75 million in the first nine months of 2021 compared to 2020. The decrease in the third quarter reflected lower earnings from mortgage services due to a decrease in funded volume largely attributable to a decrease in refinance activity. The earnings increase during the first nine months was due to a comparative increase in closed brokerage transaction volumes in 2021.

Corporate interest and other after-tax earnings decreased \$47 million in the third quarter and \$59 million in the first nine months of 2021 compared to 2020, reflecting lower federal income tax credits recognized, changes in operating expenses (lower in the third quarter and higher in the first nine months) and higher interest expense from corporate debt issued in 2020, as well as higher earnings from non-regulated energy services.

Manufacturing, Service and Retailing

A summary of revenues and earnings of our manufacturing, service and retailing businesses follows (dollars in millions).

		Third Quarter				First Nin	e Mo	onths	Percentage	Change
		2021		2020	2021			2020	Third Quarter	First Nine Months
Revenues										
Manufacturing	\$	17,496	\$	15,170	\$	50,821	\$	43,238	15.3%	17.5%
Service and retailing		21,291		19,319		62,143		55,351	10.2	12.3
	\$	38,787	\$	34,489	\$	112,964	\$	98,589		
Pre-tax earnings			_		_					
Manufacturing	\$	2,445	\$	2,255	\$	7,595	\$	5,765	8.4%	31.7%
Service and retailing		1,102		875		3,413		1,950	25.9	75.0
		3,547		3,130		11,008		7,715		
Income taxes and noncontrolling interests		841		784		2,679		1,882		
Net earnings*	\$	2,706	\$	2,346	\$	8,329	\$	5,833		
Effective income tax rate		22.9%		24.4%	, —	23.7%	,	24.0%		
Pre-tax earnings as a percentage of revenues	_	<u>9.1</u> %	_	9.1%	5 _	9.7%	,	7.8%		

* Excludes certain acquisition accounting expenses, which were primarily from the amortization of identifiable intangible assets recorded in connection with our business acquisitions. The after-tax acquisition accounting expenses excluded from earnings were \$169 million in the third quarter and \$532 million in the first nine months of 2021 compared to \$195 million in the third quarter and \$593 million in the first nine months of 2020. In the first nine months of 2020, net earnings also excluded goodwill and indefinite-lived intangible asset after-tax impairment charges of \$10.4 billion. The acquisition accounting expense and impairment charges are included in "Other" in the summary of earnings on page 25 and in the "Other" earnings section on page 42.

Manufacturing, Service and Retailing (Continued)

Manufacturing

Our manufacturing group includes a variety of industrial, building and consumer products businesses. A summary of revenues and pre-tax earnings of our manufacturing operations follows (dollars in millions).

	Third Quarter					First Nin	e Mor	onths	
		2021		2020	2021			2020	
Revenues									
Industrial products	\$	7,192	\$	6,173	\$	21,050	\$	19,320	
Building products		6,374		5,672		18,404		15,497	
Consumer products		3,930		3,325		11,367		8,421	
	\$	17,496	\$	15,170	\$	50,821	\$	43,238	
Pre-tax earnings							_		
Industrial products	\$	1,124	\$	940	\$	3,508	\$	2,781	
Building products		833		825		2,576		2,088	
Consumer products		488		490		1,511		896	
	\$	2,445	\$	2,255	\$	7,595	\$	5,765	
Pre-tax earnings as a percentage of revenues									
Industrial products		15.6%		15.2%	6 16.79			14.4%	
Building products		13.1%	6 14.5%		% 14.09			13.5%	
Consumer products		12.4%	•	14.7%	,)	13.3%		10.6%	

Industrial products

The industrial products group includes metal products for aerospace, power and general industrial markets (Precision Castparts Corp. ("PCC")), specialty chemicals (The Lubrizol Corporation ("Lubrizol")), complex metal cutting tools/systems (IMC International Metalworking Companies ("IMC")) and Marmon, which consists of more than 100 autonomous manufacturing and service businesses, including equipment leasing for the rail, intermodal tank container and mobile crane industries, which are internally aggregated into eleven groups. The industrial products group also includes equipment and systems for the livestock and agricultural industries (CTB International) and a variety of industrial products for diverse markets (Scott Fetzer and LiquidPower Specialty Products).

Revenues of the industrial products group in 2021 increased \$1.0 billion (16.5%) in the third quarter and \$1.7 billion (9.0%) in the first nine months compared to 2020. Pre-tax earnings in 2021 increased \$184 million (19.6%) in the third quarter and \$727 million (26.1%) in the first nine months compared to 2020. Pre-tax earnings as a percentage of revenues for the group were 16.7% for the first nine months of 2021, an increase of 2.3 percentage points compared to 2020.

PCC's revenues were \$1.6 billion in the third quarter of 2021, an increase of 6.6% over 2020, while revenues in the first nine months decreased 16.4% compared to 2020. Historically, PCC has derived significant revenues and earnings from aerospace products. The COVID-19 pandemic contributed to material declines in commercial air travel and original equipment manufacturing ("OEM") aircraft production in 2020. While commercial air travel in the U.S. increased in 2021, global demand remains below pre-pandemic levels, as efforts to manage the pandemic continue.

PCC's pre-tax earnings increased \$217 million in the third quarter and \$445 million in the first nine months of 2021 compared to 2020. The increases reflect the aggressive actions previously taken by management to resize and restructure operations. We do not expect significant increases in PCC's aerospace revenues or earnings to occur in the near term attributable to relatively low aircraft build rates, inventory levels currently within the industry supply chain and the ongoing impact of the COVID-19 pandemic on commercial air travel.

Lubrizol's revenues were approximately \$1.6 billion in the third quarter and \$5.0 billion in the first nine months of 2021, increases of 9.6% and 13.4%, respectively, over the same periods in 2020. The increases reflected higher average selling prices, driven by significant increases in materials and other manufacturing costs, as well as higher volumes in the first nine months. Sales volumes in the Additives product lines were negatively affected by severe winter storms in February 2021, which caused the temporary shutdown of several U.S. facilities, as well as other temporary production shut-downs in the third quarter of 2021.

Manufacturing, Service and Retailing (Continued)

Industrial products (Continued)

Lubrizol's pre-tax earnings decreased 76.9% in the third quarter and 39.0% in the first nine months of 2021 compared to 2020. Earnings in 2021 were negatively impacted by significant losses related to a fire in June 2021 at a facility of Chemtool Incorporated, a Lubrizol subsidiary, located in Rockton, Illinois and impairment charges in the third quarter related to an underperforming business in the Advanced Materials product lines. These losses and charges aggregated \$73 million in the third quarter and \$229 million in the first nine months of 2021. Earnings in 2021 were also negatively impacted by the effects of accelerating raw material costs and the previously mentioned temporary shut-down of Additives production, which resulted in lost sales and incremental manufacturing costs.

Marmon's revenues were \$2.6 billion in the third quarter and \$7.2 billion in the first nine months of 2021, increases of 30.0% and 26.3%, respectively, compared to 2020. The revenue increases were primarily due to higher metal prices in the Electrical, Metal Services and Plumbing & Refrigeration groups and higher volumes in most of Marmon's other business groups, particularly those serving the construction, automotive, heavy-duty truck and restaurant markets. These increases were partially offset by the impact of divestitures and business closures in the Water Technologies and Retail Solutions groups and a year-to-date decline in Rail & Leasing group revenues.

Marmon's pre-tax earnings in 2021 increased \$106 million (38.3%) in the third quarter and \$268 million (33.5%) in the first nine months compared to 2020. Earnings in the first nine months of 2021 reflected higher earnings across several business groups, partially offset by lower earnings from the Rail & Leasing and Water Technologies groups.

IMC's revenues were \$862 million in the third quarter and \$2.7 billion in the first nine months of 2021, increases of 23.4% in the third quarter and 22.2% in the first nine months compared to 2020. Revenues in the first nine months of 2021 reflected improving business conditions in most geographic regions and favorable foreign currency translation effects. IMC's pre-tax earnings increased 59.4% in the third quarter and 63.6% in the first nine months of 2021 versus 2020, primarily attributable to higher customer demand, improved manufacturing efficiencies, operating cost management saving initiatives and favorable foreign currency translation effects.

Building products

The building products group includes manufactured and site-built home construction and related lending and financial services (Clayton Homes), flooring (Shaw), insulation, roofing and engineered products (Johns Manville), bricks and masonry products (Acme Building Brands), paint and coatings (Benjamin Moore) and residential and commercial construction and engineering products and systems (MiTek).

Revenues of the building products group increased \$702 million (12.4%) in the third quarter and \$2.9 billion (18.8%) in the first nine months of 2021 compared to 2020. Residential housing construction in the U.S. was strong during 2020 and through the first nine months of 2021. However, the effects of persistent supply chain disruptions limited our sales and contributed to production delays and significant cost increases for key materials and inputs, including lumber, steel, petrochemical-based materials, energy, freight, labor and fixtures. These effects necessitated sales price increases.

Clayton Homes' revenues were approximately \$2.6 billion in the third quarter and \$7.6 billion in the first nine months of 2021, increases of \$317 million (13.7%) and \$1.5 billion (24.5%), respectively, compared to 2020. Revenues from home sales increased \$297 million (16.6%) in the third quarter and \$1.4 billion (29.4%) in the first nine months of 2021, reflecting a net increase in units sold, increased revenue per home sold and changes in sales mix. Unit sales of site-built homes increased 22.7% in the first nine months of 2021, while factory-built manufactured home unit sales increased 4.5%. Unit sales of site-built homes declined in the third quarter of 2021 versus 2020, attributable to longer construction periods arising from supply chain constraints and labor shortages. Financial services revenues, which include mortgage origination and services, insurance and interest income from lending activities, increased 9.6% in the first nine months of 2021 compared to 2020. Loan balances, net of allowances for credit losses, were approximately \$18.3 billion as of September 30, 2021, an increase of approximately \$1.2 billion compared to December 31, 2020.

Aggregate revenues of our other building products businesses were approximately \$3.7 billion in the third quarter and \$10.8 billion in the first nine months of 2021, increases of \$385 million (11.5%) and \$1.4 billion (15.0%), respectively, versus 2020. The increases were primarily due to higher average selling prices driven by higher input and supply chain costs, as well as higher unit volumes for paint and coatings and certain residential flooring, insulation and engineered products.

Manufacturing, Service and Retailing (Continued)

Building products (Continued)

Pre-tax earnings of our building products group were relatively unchanged in the third quarter of 2021 versus 2020, while earnings increased \$488 million (23.4%) in the first nine months. Pre-tax earnings of Clayton Homes were \$391 million in the third quarter and \$1.2 billion in the first nine months of 2021, increases of \$52 million (15.3%) and \$380 million (44.2%), respectively, compared to 2020. Earnings in the first nine months of 2021 reflected higher earnings from home sales, mortgage originations, net interest income and a decline of \$116 million in the provision for expected credit losses, partially offset by the impact of rising manufacturing and supply chain costs. The provision for expected credit losses in the first nine months of 2020 were unusually high and included provisions for the expected impact of the COVID-19 pandemic. The comparative decline in the provision for expected credit losses is due to fewer actual and anticipated loan foreclosures.

Pre-tax earnings of our other building products businesses declined \$45 million (9.2%) in the third quarter and increased \$108 million (8.8%) in the first nine months of 2021 compared to the same periods in 2020. Earnings as a percentage of revenues decreased 2.7 percentage points in the third quarter and 0.7 percentage points in the first nine months of 2021 versus 2020. While customer demand was generally strong, reduced availability of materials and other product inputs from supply chain disruptions negatively affected sales and operating results. Higher materials costs, reduced availability of certain materials and freight services and higher restructuring and impairment charges reduced our pre-tax margin rates in 2021.

Consumer products

The consumer products group includes leisure vehicles (Forest River), several apparel and footwear operations (including Fruit of the Loom, Garan, Fechheimer, H.H. Brown Shoe Group and Brooks Sports) and high-performance batteries (Duracell). This group also includes custom picture framing products (Larson-Juhl) and jewelry products (Richline).

Consumer products revenues increased approximately \$605 million (18.2%) in the third quarter and \$2.9 billion (35.0%) in the first nine months of 2021 compared to 2020. Revenues from Forest River increased 24.7% in the third quarter and 45.3% in the first nine months of 2021 compared to 2020, driven by a year-to-date unit sales increase of 37.5% in recreational vehicles. Revenues in 2021 were, in general, significantly higher at several of our other businesses that were severely impacted by the pandemic in the first half of 2020. Apparel and footwear revenues increased 18.5% in the third quarter and 35.4% in the first nine months of 2021 compared to 2020, reflecting significant comparative increases in unit sales, attributable in part to inventory restocking by certain customers and increased consumer demand.

Pre-tax earnings of our consumer products group were substantially unchanged in the third quarter and increased \$615 million (68.6%) in the first nine months of 2021 versus 2020. Pre-tax earnings as a percentage of revenues decreased 2.3 percentage points in the third quarter and increased 2.7 percentage points in the first nine months of 2021 compared to 2020. Earnings in the third quarter reflected higher earnings at Forest River offset by lower earnings from Duracell and the apparel and footwear businesses. The comparative increase in pre-tax earnings for the first nine months reflected significant earnings increases at all of our businesses, driven by Forest River, the apparel and footwear businesses and Duracell. Our consumer products businesses are also experiencing cost increases attributable to supply chain disruptions.

Manufacturing, Service and Retailing (Continued)

Service and retailing

A summary of revenues and pre-tax earnings (loss) of our service and retailing businesses follows (dollars in millions).

	 Third (•		First Nin	ths		
	 2021		2020	2021			2020
Revenues							
Service	\$ 4,131	\$	3,068	\$	11,718	\$	9,093
Retailing	4,548		4,211		13,896		11,179
McLane Company	12,612		12,040		36,529		35,079
	\$ 21,291	\$	19,319	\$	62,143	\$	55,351
Pre-tax earnings (loss)	 						
Service	\$ 696	\$	470	\$	2,013	\$	1,155
Retailing	414		309		1,221		590
McLane Company	(8)		96		179		205
	\$ 1,102	\$	875	\$	3,413	\$	1,950
Pre-tax earnings (loss) as a percentage of revenues	 						
Service	16.8%		15.3%)	17.2%)	12.7%
Retailing	9.1%	5 7.39		% 8.89)	5.3%
McLane Company	(0.1)%	6	0.8%)	0.5%)	0.6%

Service

Our service business group offers shared ownership programs for general aviation aircraft (NetJets) and high technology training products and services to operators of aircraft (FlightSafety). We also distribute electronic components (TTI), franchise and service a network of quick service restaurants (Dairy Queen) and offer third party logistics services that primarily serve the petroleum and chemical industries (Charter Brokerage). Other service businesses include transportation equipment leasing (XTRA), furniture leasing (CORT), electronic news distribution, multimedia and regulatory filings (Business Wire) and the operation of a television station in Miami, Florida (WPLG).

Service group revenues increased \$1.1 billion (34.6%) in the third quarter and \$2.6 billion (28.9%) in the first nine months of 2021 compared to 2020. Revenues from TTI increased 45.3% in the third quarter and 40.9% in the first nine months of 2021 versus 2020. The increases reflected accelerating demand across all significant markets, as customers attempt to maintain adequate inventories in response to high demand for components in end products and supply chain disruptions. Revenues from aviation services (NetJets and FlightSafety) increased 31.0% in the third quarter and 25.4% in the first nine months of 2021 over low 2020 levels, primarily due to higher training hours and significantly higher customer flight hours.

Pre-tax earnings of the group increased \$226 million (48.1%) in the third quarter and \$858 million (74.3%) in the first nine months of 2021 versus 2020. Pre-tax earnings as a percentage of revenues increased 1.5 percentage points in the third quarter and 4.5 percentage points in the first nine months of 2021 compared to 2020. The increase in earnings for the third quarter was primarily due to TTI. Earnings at most of our service businesses increased significantly in the first nine months of 2021 compared to 2020, with the largest increases from TTI and the aviation services businesses. The increases in year-to-date earnings from NetJets and FlightSafety were primarily attributable to improved operating margins from higher volume, changes in business mix, increased operating efficiencies and the effects of past restructuring efforts. TTI's earnings increases were primarily attributable to the increases in sales and improved operating cost leverage.

Retailing

Our largest retailing business is Berkshire Hathaway Automotive ("BHA"), which consists of over 80 auto dealerships that sell new and pre-owned automobiles and offer repair services and related products. BHA represents about 64% of our combined retailing revenues in the first nine months of 2021. BHA also operates two insurance businesses, two auto auctions and an automotive fluid maintenance products distributor. Our retailing businesses include four home furnishings retailing businesses (Nebraska Furniture Mart, R.C. Willey, Star Furniture and Jordan's), which sell furniture, appliances, flooring and electronics and represent about 21% of the combined retailing revenues in the first nine months of 2021. Other retailing businesses include three jewelry businesses (Borsheims, Helzberg and Ben Bridge), See's Candies (confectionary products), Pampered Chef (high quality kitchen tools), Oriental Trading Company (party supplies, school supplies and toys and novelties) and Detlev Louis Motorrad ("Louis"), a Germany-based retailer of motorcycle accessories.

Manufacturing, Service and Retailing (Continued)

Retailing (Continued)

Retailing group revenues increased approximately \$337 million (8.0%) in the third quarter and \$2.7 billion (24.3%) in the first nine months of 2021 compared to 2020. BHA's revenues in the third quarter and first nine months of 2021 increased 9.8% and 22.2%, respectively, over 2020, primarily due to increases in pre-owned vehicle unit sales, higher volumes of new auto sales in the first six months, and higher average selling prices. New auto unit sales declined significantly in the third quarter of 2021, reflecting inventory shortages caused by supply chain disruption at OEMs. Home furnishings group revenues increased 11.7% in the third quarter and 27.5% in the first nine months of 2021 as compared to 2020 attributable to higher consumer demand and higher average selling prices.

Pre-tax earnings increased \$105 million (34.0%) in the third quarter and \$631 million (106.9%) in the first nine months of 2021 compared to 2020. Operating results of our retailing businesses were severely impacted by the pandemic beginning in March of 2020 and continued through the second quarter of 2020. Over the second half of 2020 and through the first six months of 2021, revenues and pre-tax earnings of these businesses increased, and in certain instances increased to levels exceeding those in pre-pandemic periods. Results in the third quarter of 2021 moderated somewhat relative to the first six months reflecting the effects of supply chain disruptions, which, in particular, worsened with respect to new automobiles.

BHA's pre-tax earnings increased 26.2% in the third quarter and 47.3% in the first nine months of 2021 compared to 2020, primarily due to increases in vehicle sales margins and earnings from finance and service contract activities, as well as from lower floorplan interest expense, primarily attributable to significant declines in inventory levels, and from operating cost control efforts. Aggregate pre-tax earnings for the remainder of our retailing group increased \$63 million in the third quarter and \$447 million in the first nine months of 2021 compared to 2020. The initial effects of the pandemic in 2020 were severe for most of our other retailers due to the restricted operations at many of those businesses during the first half of 2020. Results in 2021 also benefitted from relatively strong consumer demand and the effects of restructuring efforts in 2020.

McLane Company

McLane operates a wholesale distribution business that provides grocery and non-food consumer products to retailers and convenience stores ("grocery") and to restaurants ("foodservice"). McLane also operates businesses that are wholesale distributors of distilled spirits, wine and beer ("beverage"). The grocery and foodservice businesses generate high sales and very low profit margins. These businesses have several significant customers, including Walmart, 7-Eleven, Yum! Brands and others. Grocery sales typically comprise about two-thirds of McLane's consolidated sales with foodservice comprising much of the remainder. A curtailment of purchasing by any of its significant customers could have an adverse impact on periodic revenues and earnings. The grocery and foodservice businesses environment.

Revenues increased \$572 million (4.8%) in the third quarter and \$1.45 billion (4.1%) in the first nine months of 2021 compared to 2020. Revenues from the grocery business were relatively unchanged over the first nine months of 2021, while revenues from the foodservice and beverage businesses increased 10.9% and 21.1%, respectively, compared to the first nine months of 2020. The foodservice business was significantly impacted by pandemic-related restaurant closures in 2020.

Pre-tax earnings decreased \$104 million in the third quarter and \$26 million in the first nine months of 2021 compared to 2020. The decreases were primarily attributable to higher personnel costs and fuel expense. McLane's operations have been adversely affected by supply chain disruptions, including shortages of truck drivers, affecting inventory and customer deliveries. There is increased competition for drivers within the trucking industry. The increase in fuel expense was primarily attributable to significant increases in petroleum prices.

Investment and Derivative Contract Gains/Losses

A summary of investment and derivative contract gains/losses follows (dollars in millions).

	Third Quarter					First Nine Months				
		2021		2020		2021		2020		
Investment gains/losses	\$	4,851	\$	31,625	\$	37,235	\$	2,032		
Derivative contract gains/losses		70		(43)		780		(640)		
Gains/losses before income taxes and noncontrolling interests		4,921		31,582		38,015		1,392		
Income taxes and noncontrolling interests		1,043		6,845		8,036		627		
Net earnings	\$	3,878	\$	24,737	\$	29,979	\$	765		
Effective income tax rate		20.7%		21.3%	,	20.9%		35.1%		

Investment and Derivative Contract Gains/Losses (Continued)

Investment gains/losses

Unrealized gains and losses arising from changes in market prices of investments in equity securities are included in our reported earnings, which significantly increases the volatility of our periodic net earnings due to the magnitude of our equity securities portfolio and the inherent volatility of equity securities prices. Pre-tax investment gains/losses included net unrealized gains of \$4.8 billion in the third quarter and \$36.2 billion in the first nine months of 2021 compared to net unrealized gains of \$30.8 billion in the third quarter and \$16.5 billion in the first nine months of 2020 on securities we held at the end of the applicable period. Investment losses from market value changes in the first nine months of 2020 on equity securities sold in 2020 were \$13.9 billion.

Taxable investment gains on equity securities sold, which is generally the difference between sales proceeds and the original cost basis of the securities sold, were \$0.9 billion in the third quarter and \$2.9 billion in the first nine months of 2021. Taxable investment gains on equity securities were \$3.9 billion in the third quarter and \$0.7 billion in the first nine months of 2020.

We believe that investment gains/losses, whether realized from sales or unrealized from changes in market prices, are often meaningless in terms of understanding our reported consolidated earnings or evaluating our periodic economic performance. We continue to believe the investment gains/losses recorded in earnings in any given period has little analytical or predictive value.

Derivative contract gains/losses

Derivative contract gains/losses include the changes in fair value of our equity index put option contract liabilities, which relate to contracts that were originated prior to March 2008. The periodic changes in the fair values of these liabilities are recorded in earnings and can be significant due to the volatility of market prices in the underlying equity markets. As of September 30, 2021, the intrinsic value of our equity index put option contracts was \$83 million and our recorded liability at fair value was \$286 million. Our ultimate payment obligations, if any, under these contracts will be determined as of the contract expiration dates based on the intrinsic value as defined under the contracts.

Other

A summary of after-tax other earnings/losses follows (in millions).

	Third Quarter					First Nine Months			
		2021		2020		2021		2020	
Equity method earnings	\$	310	\$	244	\$	665	\$	346	
Acquisition accounting expenses		(169)		(195)		(532)		(593)	
Goodwill and intangible asset impairments				(19)				(10,369)	
Corporate interest expense, before foreign currency effects		(75)		(80)		(232)		(252)	
Foreign currency exchange rate gains (losses) on Berkshire									
and BHFC non-U.S. Dollar senior notes		196		(412)		676		(329)	
Income tax expense adjustments		_		(60)		_		(60)	
Other		87		32		76		363	
	\$	349	\$	(490)	\$	653	\$	(10,894)	

After-tax equity method earnings include our proportionate share of earnings attributable to our investments in Kraft Heinz, Pilot, Berkadia and Electric Transmission of Texas. Our after-tax earnings from Kraft Heinz were \$168 million for the third quarter and \$323 million for the first nine months of 2021. Our Kraft Heinz investment produced after-tax earnings of \$142 million for the third quarter and an after-tax loss of \$56 million for the first nine months of 2020, which included after-tax losses of \$59 million in the third quarter and \$611 million in the first nine months associated with goodwill and intangible asset impairment charges recorded by Kraft Heinz.

After-tax acquisition accounting expenses include charges arising from the application of the acquisition method in connection with certain of Berkshire's past business acquisitions. Such charges arise primarily from the amortization of intangible assets recorded in connection with those business acquisitions. Goodwill and intangible asset impairments in the first nine months of 2020 included \$9.8 billion attributable to impairments of goodwill and certain identifiable intangible assets recorded in connection with our acquisition of PCC in 2016.

Foreign currency exchange rate gains and losses pertain to Berkshire's Euro and Japanese Yen denominated debt and BHFC's Great Britain Pound denominated debt. Changes in foreign currency exchange rates produce unrealized gains and losses from the periodic revaluation of these liabilities into U.S. Dollars. The gains and losses recorded in any given period can be significant due to the magnitude of the borrowings and the inherent volatility in foreign currency exchange rates.

Financial Condition

Our consolidated balance sheet continues to reflect very significant liquidity and a very strong capital base. Consolidated shareholders' equity at September 30, 2021 was \$472 billion, an increase of \$29.3 billion since December 31, 2020. Net earnings attributable to Berkshire shareholders were \$50.1 billion in the first nine months of 2021 and included after-tax gains on our investments of approximately \$29.4 billion. Changes in the market prices of our investments in equity securities can produce significant volatility in our earnings.

Berkshire's common stock repurchase program, as amended, permits Berkshire to repurchase its Class A and Class B shares at prices below Berkshire's intrinsic value, as conservatively determined by Warren Buffett, Berkshire's Chairman of the Board and Chief Executive Officer, and Charlie Munger, Vice Chairman of the Board. The program allows share repurchases in the open market or through privately negotiated transactions and does not specify a maximum number of shares to be repurchased. The program is expected to continue indefinitely. We will not repurchase our stock if it reduces the total amount of Berkshire's consolidated cash, cash equivalents and U.S. Treasury Bills holdings below \$30 billion. Financial strength and redundant liquidity will always be of paramount importance at Berkshire. Berkshire paid \$20.2 billion in the first nine months of 2021 to repurchase shares of its Class A and B common stock.

At September 30, 2021, our insurance and other businesses held cash, cash equivalents and U.S. Treasury Bills of \$144.4 billion, which included \$116.6 billion in U.S. Treasury Bills. Investments in equity and fixed maturity securities (excluding our investment in Kraft Heinz) were \$328.9 billion.

Berkshire parent company outstanding debt at September 30, 2021 was \$21.8 billion, a decrease of \$886 million since December 31, 2020, which was primarily due to the effects of foreign currency exchange rate changes on Euro and Japanese Yen denominated debt. In the first nine months of 2021, Berkshire repaid \notin 550 million and \$1.5 billion of maturing senior notes. In the first nine months of 2021, Berkshire issued \notin 600 million of 0.5% senior notes due in 2041 and ¥160 billion (approximately \$1.5 billion) of senior notes with maturity dates ranging from 2026 to 2041 and a weighted average interest rate of 0.5%. Berkshire parent company debt maturing over the next twelve months is \$600 million.

Berkshire's insurance and other subsidiary outstanding borrowings were \$17.9 billion at September 30, 2021, which included senior note borrowings of BHFC, a wholly-owned financing subsidiary, of approximately \$13.1 billion. BHFC's borrowings are used to fund a portion of loans originated and acquired by Clayton Homes and equipment held for lease by our railcar leasing business. In January 2021, BHFC repaid \$750 million of maturing senior notes and issued \$750 million of 2.5% senior notes due in 2051. BHFC debt maturing over the next twelve months is \$775 million. Berkshire guarantees BHFC's senior notes for the full and timely payment of principal and interest.

Our railroad, utilities and energy businesses (conducted by BNSF and BHE) maintain very large investments in capital assets (property, plant and equipment) and will regularly make significant capital expenditures in the normal course of business. Capital expenditures of these two operations in the first nine months of 2021 were \$6.7 billion and we currently forecast additional capital expenditures of approximately \$3.1 billion over the remainder of 2021.

Berkshire does not guarantee the repayment of debt issued by BNSF, BHE or any of their subsidiaries and is not committed to provide capital to support BNSF, BHE or any of their subsidiaries. BNSF's outstanding debt was \$23.3 billion as of September 30, 2021, relatively unchanged from December 31, 2020. During the first nine months of 2021, BNSF repaid \$888 million of debt and issued \$925 million of 3.3% debentures due in 2051. Outstanding borrowings of BHE and its subsidiaries were \$52.1 billion at September 30, 2021, relatively unchanged from December 31, 2020. During the first nine months of 2021, BHE and its subsidiaries repaid \$1.7 billion of term debt and issued \$2.1 billion of term debt with a weighted average interest rate of 3.0% with due dates in 2051 and 2052, and short-term borrowings decreased by \$318 million. Aggregate debt maturities for BHE and BNSF over the next twelve months approximate \$2.4 billion.

Contractual Obligations

We are party to contracts associated with ongoing business and financing activities, which will result in cash payments to counterparties in future periods. Certain obligations are included in our Consolidated Balance Sheets, such as notes payable, which require future payments on contractually specified dates and in fixed and determinable amounts. Other obligations pertaining to the acquisition of goods or services in the future are not currently reflected in the financial statements and will be recognized in future periods as the goods are delivered or services are provided. The timing and amount of the payments under certain contracts, such as insurance and reinsurance contracts, are contingent upon the outcome of future events and the actual payments will likely vary, perhaps materially, from the estimated liabilities currently recorded in our Consolidated Balance Sheet.

Contractual Obligations (Continued)

In the first nine months of 2021, Berkshire and certain of its subsidiaries issued term debt of approximately \$5.9 billion in the aggregate. Principal and interest payments associated with these borrowings are expected as follows: in 2021 - \$27 million; in 2022 through 2025 - \$121 million per annum; and thereafter - \$8.8 billion.

Except as otherwise disclosed in this Quarterly Report, our contractual obligations as of September 30, 2021 were, in the aggregate, not materially different from those disclosed in the "Contractual Obligations" section of "Management's Discussion and Analysis of Financial Condition and Results of Operations" contained in Berkshire's Annual Report on Form 10-K for the year ended December 31, 2020.

Critical Accounting Policies

Certain accounting policies require us to make estimates and judgments that affect the amounts reflected in the Consolidated Financial Statements. Such estimates and judgments necessarily involve varying, and possibly significant, degrees of uncertainty. Accordingly, certain amounts recorded in the financial statements will likely be adjusted in the future based on new available information and changes in other facts and circumstances. Reference is made to "Critical Accounting Policies" discussed in "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in Berkshire's Annual Report on Form 10-K for the year ended December 31, 2020.

Our Consolidated Balance Sheet as of September 30, 2021 includes estimated liabilities of \$125.5 billion for unpaid losses and loss adjustment expenses from property and casualty insurance and reinsurance contracts. Due to the inherent uncertainties in the processes of establishing these liabilities, the actual ultimate claim amounts will likely differ from the currently recorded amounts. A very small percentage change in estimates of this magnitude can result in a material effect on periodic earnings. The effects from changes in these estimates are recorded as a component of insurance losses and loss adjustment expenses in the period of the change.

Our Consolidated Balance Sheet as of September 30, 2021 included goodwill of acquired businesses of \$73.8 billion and indefinite-lived intangible assets of \$18.3 billion. We evaluate these assets for impairment at least annually and we conducted our most recent annual review during the fourth quarter of 2020.

Goodwill and indefinite-lived intangible asset impairment reviews include determining the estimated fair values of our reporting units and assets. The key assumptions and inputs used in such determinations may include forecasting revenues and expenses, cash flows and capital expenditures, as well as an appropriate discount rate and other inputs. Significant judgment by management is required in estimating the fair value of a reporting unit and in performing impairment tests. Due to the inherent subjectivity and uncertainty in forecasting future cash flows and earnings over long periods of time, actual results may vary materially from the forecasts.

As of September 30, 2021, we concluded it is more likely than not that goodwill recorded in our Consolidated Balance Sheet was not impaired. The long-term adverse effects of the COVID-19 pandemic on certain of our reporting units may prove to be worse than we currently anticipate, and we may need to record goodwill or indefinite-lived asset impairment charges in future periods. Making estimates of the fair value of reporting units and judgments on goodwill impairments at this time are and will likely be significantly affected by assumptions on the severity, duration or long-term effects of the pandemic on a reporting unit's business, which we cannot reliably predict. Consequently, any fair value estimates in such instances can be subject to wide variations.

As of the most recent annual goodwill impairment review, the estimated fair values of certain reporting units did not exceed our carrying values by at least 20%. The most significant of these reporting units was Precision Castparts Corp. ("PCC"). The estimated fair value of PCC was approximately \$35.5 billion, exceeding our carrying value of approximately \$32.1 billion by 10.6%. Our carrying value of PCC included goodwill of approximately \$7.5 billion. For the four other reporting units where estimated fair value did not exceed carrying value by at least 20%, their aggregate estimated fair value of approximately \$1.5 billion exceeded our aggregate carrying value of approximately \$1.4 billion by 10.0%. Our carrying value of these units included goodwill of approximately \$600 million.

Information concerning new accounting pronouncements is included in Note 2 to the accompanying Consolidated Financial Statements.

Forward-Looking Statements

Investors are cautioned that certain statements contained in this document as well as some statements in periodic press releases and some oral statements of Berkshire officials during presentations about Berkshire or its subsidiaries are "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995 (the "Act"). Forward-looking statements include statements which are predictive in nature, which depend upon or refer to future events or conditions, or which include words such as "expects," "anticipates," "intends," "plans," "believes," "estimates" or similar expressions. In addition, any statements concerning future financial performance (including future revenues, earnings or growth rates), ongoing business strategies or prospects and possible future Berkshire actions, which may be provided by management, are also forward-looking statements as defined by the Act. Forward-looking statements are based on current expectations and projections about future events and are subject to risks, uncertainties and assumptions about Berkshire and its subsidiaries, economic and market factors and the industries in which we do business, among other things. These statements are not guarantees of future performance and we have no specific intention to update these statements.

Actual events and results may differ materially from those expressed or forecasted in forward-looking statements due to a number of factors. The principal risk factors that could cause our actual performance and future events and actions to differ materially from such forward-looking statements include, but are not limited to, changes in market prices of our investments in fixed maturity and equity securities; losses realized from derivative contracts; the occurrence of one or more catastrophic events, such as an earthquake, hurricane, act of terrorism or cyber-attack that causes losses insured by our insurance subsidiaries and/or losses to our business operations; the frequency and severity of epidemics, pandemics or other outbreaks, including COVID-19, that negatively affect our operating results and restrict our access to borrowed funds through the capital markets at reasonable rates; changes in laws or regulations affecting our insurance, railroad, utilities and energy and finance subsidiaries; changes in federal income tax laws; and changes in general economic and market factors that affect the prices of securities or the industries in which we do business.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

Reference is made to Berkshire's most recently issued Annual Report and in particular the "Market Risk Disclosures" included in "Management's Discussion and Analysis of Financial Condition and Results of Operations." As of September 30, 2021, there were no material changes in the market risks described in Berkshire's Annual Report on Form 10-K for the year ended December 31, 2020.

Item 4. Controls and Procedures

As of the end of the period covered by this Quarterly Report on Form 10-Q, the Company carried out an evaluation, under the supervision and with the participation of the Company's management, including the Chairman (Chief Executive Officer) and the Senior Vice President (Chief Financial Officer), of the effectiveness of the design and operation of the Company's disclosure controls and procedures pursuant to Exchange Act Rule 13a-15. Based upon that evaluation, the Chairman (Chief Executive Officer) and the Senior Vice President (Chief Financial Officer) concluded that the Company's disclosure controls and procedures are effective in timely alerting them to material information relating to the Company (including its consolidated subsidiaries) required to be included in the Company's periodic SEC filings. During the quarter, there have been no significant changes in the Company's internal control over financial reporting or in other factors that could significantly affect internal control over financial reporting.

Part II Other Information

Item 1. Legal Proceedings

Berkshire and its subsidiaries are parties in a variety of legal actions that routinely arise out of the normal course of business, including legal actions seeking to establish liability directly through insurance contracts or indirectly through reinsurance contracts issued by Berkshire subsidiaries. Plaintiffs occasionally seek punitive or exemplary damages. We do not believe that such normal and routine litigation will have a material effect on our consolidated financial condition or results of operations. Berkshire and certain of its subsidiaries are also involved in other kinds of legal actions, some of which assert or may assert claims or seek to impose fines and penalties. We believe that any liability that may arise as a result of other pending legal actions will not have a material effect on our consolidated financial condition or results of operations.

Item 1A. Risk Factors

Our significant business risks are described in Item 1A to Form 10-K for the year ended December 31, 2020, to which reference is made herein. The risks and uncertainties we describe are not the only ones facing us. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also impair our business or operations. Any adverse effect on our business, financial condition or operating results could result in a decline in the value of our securities and the loss of all or part of your investment.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds and Issuer Repurchases of Equity Securities

Berkshire's common stock repurchase program permits Berkshire to repurchase its Class A and Class B shares any time that Warren Buffett, Berkshire's Chairman of the Board and Chief Executive Officer, and Charles Munger, Vice Chairman of the Board, believe that the repurchase price is below Berkshire's intrinsic value, conservatively determined. Repurchases may be in the open market or through privately negotiated transactions. Information with respect to Berkshire's Class A and Class B common stock repurchased during the third quarter of 2021 follows.

Period	Total number of shares purchased	Average price paid per share	Total number of shares purchased as part of publicly announced program	Maximum number or value of shares that yet may be repurchased under the program
July				
Class A common stock	938	\$ 420,100.50	938	*
Class B common stock	6,387,847	\$ 278.13	6,387,847	*
August				
Class A common stock	868	\$ 430,704.66	868	*
Class B common stock	6,535,695	\$ 285.41	6,535,695	*
September				
Class A common stock	1,323	\$ 419,236.93	1,323	*
Class B common stock	9,580,995	\$ 277.74	9,580,995	*

* The program does not specify a maximum number of shares to be repurchased or obligate Berkshire to repurchase any specific dollar amount or number of Class A or Class B shares and there is no expiration date to the repurchase program. Berkshire will not repurchase its common stock if the repurchases reduce the total value of Berkshire's consolidated cash, cash equivalents and U.S. Treasury Bills holdings to less than \$30 billion.

Item 3. Defaults Upon Senior Securities

None

Item 4. Mine Safety Disclosures

Information regarding the Company's mine safety violations and other legal matters disclosed in accordance with Section 1503(a) of the Dodd-Frank Reform Act is included in Exhibit 95 to this Form 10-Q.

Item 5. Other Information

None

Item 6. Exhibits

a. Exhibits

- 3(i) Restated Certificate of Incorporation Incorporated by reference to Exhibit 3(i) to Form 10-K filed on March 2, 2015.
- 3(ii) By-Laws Incorporated by reference to Exhibit 3(ii) to Form 8-K filed on August 4, 2016.
- 31.1 Rule 13a-14(a)/15d-14(a) Certifications
- 31.2 Rule 13a-14(a)/15d-14(a) Certifications
- 32.1 Section 1350 Certifications
- 32.2 Section 1350 Certifications
- 95 Mine Safety Disclosures
- 101 The following financial information from Berkshire Hathaway Inc.'s Quarterly Report on Form 10-Q for the quarter ended September 30, 2021, formatted in iXBRL (Inline Extensible Business Reporting Language) includes: (i) the Cover Page (ii) the Consolidated Balance Sheets, (iii) the Consolidated Statements of Earnings, (iv) the Consolidated Statements of Comprehensive Income, (v) the Consolidated Statements of Changes in Shareholders' Equity, (vi) the Consolidated Statements of Cash Flows, and (vii) the Notes to Consolidated Financial Statements, tagged in summary and detail.
- 104 Cover Page Interactive Data File (formatted as iXBRL and contained in Exhibit 101)

SIGNATURE

Pursuant to the requirement of the Securities Exchange Act of 1934, the Registrant has duly caused this Report to be signed on its behalf by the undersigned thereunto duly authorized.

BERKSHIRE HATHAWAY INC. (Registrant)

Date: November 6, 2021

/S/ MARC D. HAMBURG

(Signature) Marc D. Hamburg, Senior Vice President and Principal Financial Officer

Quarter ended September 30, 2021

Rule 13a-14(a)/15d-14(a) Certifications

CERTIFICATIONS

I, Warren E. Buffett, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Berkshire Hathaway Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 6, 2021

/s/ WARREN E. BUFFETT Chairman—Principal Executive Officer

Quarter ended September 30, 2021

Rule 13a-14(a)/15d-14(a) Certifications

CERTIFICATIONS

I, Marc D. Hamburg, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Berkshire Hathaway Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 6, 2021

/s/ MARC D. HAMBURG
Senior Vice President—Principal Financial Officer

EXHIBIT 32.1

Section 1350 Certifications

Quarter ended September 30, 2021

I, Warren E. Buffett, Chairman and Chief Executive Officer of Berkshire Hathaway Inc. (the "Company"), certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C. Section 1350, that to the best of my knowledge:

- (1) the Quarterly Report on Form 10-Q of the Company for the period ended September 30, 2021 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: November 6, 2021

/s/ WARREN E. BUFFETT Warren E. Buffett Chairman and Chief Executive Officer

EXHIBIT 32.2

Section 1350 Certifications

Quarter ended September 30, 2021

I, Marc D. Hamburg, Senior Vice President and Chief Financial Officer of Berkshire Hathaway Inc. (the "Company"), certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C. Section 1350, that to the best of my knowledge:

- (1) the Quarterly Report on Form 10-Q of the Company for the period ended September 30, 2021 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: November 6, 2021

/s/ MARC D. HAMBURG Marc D. Hamburg Senior Vice President and Chief Financial Officer

MINE SAFETY VIOLATIONS AND OTHER LEGAL MATTER DISCLOSURES PURSUANT TO SECTION 1503(a) OF THE DODD-FRANK WALL STREET REFORM AND CONSUMER PROTECTION ACT

PacifiCorp and its subsidiaries operate coal mines and coal processing facilities and Acme Brick and its affiliates operate clay, shale and limestone excavation facilities (collectively, the "mining facilities") that are regulated by the Federal Mine Safety and Health Administration ("MSHA") under the Federal Mine Safety and Health Act of 1977 (the "Mine Safety Act"). MSHA inspects mining facilities on a regular basis. The total number of reportable Mine Safety Act citations, orders, assessments and legal actions for the three months ended September 30, 2021 are summarized in the table below and are subject to contest and appeal. The severity and assessment of penalties may be reduced or, in some cases, dismissed through the contest and appeal process. Amounts are reported regardless of whether PacifiCorp or Acme has challenged or appealed the matter. Mines that are closed or idled are not included in the information below as no reportable events occurred at those locations during the three months ended September 30, 2021. PacifiCorp and Acme have not received any notice of a pattern, or notice of the potential to have a pattern, of violations of mandatory health or safety standards that are of such nature as could have significantly and substantially contributed to the cause and effect of coal or other mine health or safety hazards under Section 104(e) of the Mine Safety Act during the three months ended September 30, 2021.

		N	Iine Safety A	Act			Legal Actions					
Mining Facilities	Section 104 Significant and Substantial Citations ⁽¹⁾	Section 104(b) Orders ⁽²⁾	Section 104(d) Citations/ Orders ⁽³⁾	Section 110(b)(2) Violations ⁽⁴⁾	Section 107(a) Imminent Danger Orders ⁽⁵⁾	Total Value of Proposed MSHA Assessments (in thousands)	Total Number of Mining Related Fatalities	Pending as of Last Day of Period ⁽⁶⁾	Instituted During	Resolved During Period		
Coal:												
Bridger (surface)	_			—	_	\$	—	1	—	_		
Bridger (underground)	2			_	_	30	—	1	1	1		
Wyodak Coal Crushing Facility	_	_	_	_	_	_				_		
Clay, shale and limestone:												
Malvern												
Jonesboro	_			_	_	_						
Oklahoma City	—	—	—	—	_		—	—	—	_		
Tulsa	_			_	_							
Bennett	_	_	_	_	_	_	_	_	_	_		
Denton	_			_								
Elgin	—			—	_	—	—	_	—	_		
Sealy	—			_	—	—						
Texas Clay	—	—	_	_	—		—	_	—	_		
Leeds	—	—	—	—	—	—	—		—			
Montgomery	—		_	_	_		—	_	—	_		
Cordova	_			_		_	_		_			

(1) Citations for alleged violations of mandatory health and safety standards that could significantly or substantially contribute to the cause and effect of a safety or health hazard under Section 104 of the Mine Safety Act.

⁽²⁾ For alleged failures to totally abate the subject matter of a Mine Safety Act Section 104(a) citation within the period specified in the citation.

(3) For alleged unwarrantable failures (i.e., aggravated conduct constituting more than ordinary negligence) to comply with a mandatory health or safety standard.

(4) For alleged flagrant violations (i.e., reckless or repeated failure to make reasonable efforts to eliminate a known violation of a mandatory health or safety standard that substantially and proximately caused, or reasonably could have been expected to cause, death or serious bodily injury).

⁽⁵⁾ For the existence of any condition or practice in a coal or other mine which could reasonably be expected to cause death or serious physical harm before such condition or practice can be abated.

Amounts include two contests of proposed penalties under Subpart C of the Federal Mine Safety and Health Review Commission's procedural rules. The pending legal actions are not exclusive to citations, notices, orders and penalties assessed by MSHA during the reporting period.