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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM₁₀-Q

(Mark One)

QUARTERLY
REPORT
PURSUANT TO
SECTION 13
OR 15(d) OF
THE
SECURITIES
EXCHANGE

ACT OF 1934

For the

quarterly March 31, 2019

period ended

OR

TRANSITION REPORT

PURSUANT TO SECTION 13

O OR 15(d) OF

THE

SECURITIES EXCHANGE ACT OF 1934

For the transition period from

_____ to

Commission file number 001-32597

CF INDUSTRIES HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware 20-2697511

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

4 Parkway North, Suite 400

60015

Deerfield, Illinois

(Zip Code)

(Address of principal executive offices)

(847) 405-2400

(Registrant's telephone number, including area code)

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

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

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

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. o

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes

o No X

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

Title of each class Trading symbol(s) Name of each exchange on which registered

common stock, par value \$0.01 per share CF New York Stock Exchange

221,077,667 shares of the registrant's common stock, \$0.01 par value per share, were outstanding at April 29, 2019.

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CF INDUSTRIES HOLDINGS, INC.

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CF INDUSTRIES HOLDINGS, INC.

PART I—FINANCIAL INFORMATION ITEM 1. FINANCIAL STATEMENTS. CONSOLIDATED STATEMENTS OF OPERATIONS (Unaudited)

	Three morended March 31	
	2019	2018
	(in million per share a	
Net sales	\$1,001	\$957
Cost of sales	781	767
Gross margin	220	190
Selling, general and administrative expenses	58	57
Other operating—net	4	(21)
Total other operating costs and expenses	62	36
Equity in earnings of operating affiliate	7	7
Operating earnings	165	161
Interest expense	60	60
Interest income	(4)	(3)
Other non-operating—net	(1)	(1)
Earnings before income taxes	110	105
Income tax (benefit) provision	(8)	17
Net earnings	118	88
Less: Net earnings attributable to noncontrolling interests	28	25
Net earnings attributable to common stockholders	\$90	\$63
Net earnings per share attributable to common stockholders:		
Basic	\$0.40	\$0.27
Diluted	\$0.40	\$0.27
Weighted-average common shares outstanding:		
Basic	223.4	233.9
Diluted	224.6	234.8
Dividends declared per common share	\$0.30	\$0.30

See accompanying Notes to Unaudited Consolidated Financial Statements.

CF INDUSTRIES HOLDINGS, INC.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (Unaudited)

	Three m ended March	
	2019	2018
	(in milli	ons)
Net earnings	\$118	\$88
Other comprehensive income (loss):		
Foreign currency translation adjustment—net of taxes	32	17
Defined benefit plans—net of taxes	(2)	(1)
	30	16
Comprehensive income	148	104
Less: Comprehensive income attributable to noncontrolling interests	28	25
Comprehensive income attributable to common stockholders	\$120	\$79
See accompanying Notes to Unaudited Consolidated Financial Stater	nents.	

CF INDUSTRIES HOLDINGS, INC.

CONSOLIDATED BALANCE SHEETS

CONSOLIDATED BALANCE SHEETS	(1]1:41)		
	(Unaudited) March 31, 2019 (in millions, and per share	December 31, 2018 except share	
Assets	•	ŕ	
Current assets:			
Cash and cash equivalents	\$671	\$682	
Accounts receivable—net	264	235	
Inventories	446	309	
Prepaid income taxes	1	28	
Other current assets	30	20	
Total current assets	1,412	1,274	
Property, plant and equipment—net	8,471	8,623	
Investment in affiliate	100	93	
Goodwill	2,360	2,353	
Operating lease right-of-use assets	285		
Other assets	314	318	
Total assets	\$12,942	\$12,661	
Liabilities and Equity			
Current liabilities:			
Accounts payable and accrued expenses	\$432	\$ 545	
Income taxes payable	3	5	
Customer advances	301	149	
Current operating lease liabilities	85		
Other current liabilities	5	6	
Total current liabilities	826	705	
Long-term debt	4,700	4,698	
Deferred income taxes	1,135	1,117	
Operating lease liabilities	203		
Other liabilities	408	410	
Equity:			
Stockholders' equity:			
Preferred stock—\$0.01 par value, 50,000,000 shares authorized		_	
Common stock—\$0.01 par value, 500,000,000 shares authorized, 2019—223,070,183 shares issued to the common stock and the common stock are stock as a stock and the common stock are stock as a stock and the common stock are stock as a stock ar	sugd	2	
and 2018—233,800,903 shares issued	2	2	
Paid-in capital	1,311	1,368	
Retained earnings	2,047	2,463	
Treasury stock—at cost, 2019—1,546,005 shares and 2018—10,982,408 shares	(64)	(504)	
Accumulated other comprehensive loss	(341)	(371)	
Total stockholders' equity	2,955	2,958	
Noncontrolling interests	2,715	2,773	
Total equity	5,670	5,731	
Total liabilities and equity	\$12,942	\$12,661	
See accompanying Notes to Unaudited Consolidated Financial Statements.			

CF INDUSTRIES HOLDINGS, INC.

CONSOLIDATED STATEMENTS OF EQUITY (Unaudited)

	Co: \$0.		too	ckholders		Accumulated				
		Stock	ıry	Paid-In Capital	Retained Earnings		Total Stockholde Equity	Noncontrollin Interests	gTota Equ	al ity
			-		share amo	*				
Balance as of December 31, 2018	\$2	\$ (504)	\$1,368	\$2,463	\$ (371)	\$ 2,958	\$ 2,773	\$5,	731
Net earnings	_	_		_	90		90	28	118	
Other comprehensive income	_	_		_		30	30	_	30	
Purchases of treasury stock	_	(60)	_	_	_	(60	· —	(60)
Retirement of treasury stock	_	504		(65)	(439)		_		—	
Acquisition of treasury stock under employee stock plans	_	(4)	_	_	_	(4	· —	(4)
Issuance of \$0.01 par value common stock under employee stock plans	_	_		2	_	_	2		2	
Stock-based compensation expense	_	_		6			6		6	
Cash dividends (\$0.30 per share)	_	_		_	(67)		(67	· —	(67)
Distribution declared to noncontrolling interest	_	_		_	_	_	_	(86)	(86)
Balance as of March 31, 2019	\$2	\$ (64)	\$1,311	\$2,047	\$ (341)	\$ 2,955	\$ 2,715	\$5,0	570
Balance as of December 31, 2017	\$2	\$—		\$1,397	\$2,443	\$ (263)	\$ 3,579	\$ 3,105	\$6,0	584
Adoption of ASU No. 2014-09	_	_		_	(1)	_	(1)	· —	(1)
Adoption of ASU No. 2016-01	_	_		_	1	(1)	_			
Net earnings	_			_	63	_	63	25	88	
Other comprehensive income	_	_		_	_	16	16	_	16	
Acquisition of treasury stock under employee stock plans	_	(1)	_			(1)	· —	(1)
Issuance of \$0.01 par value common stock under employee stock plans	_	_		2	_	_	2	_	2	
Stock-based compensation expense	_	_		6	_	_	6		6	
Cash dividends (\$0.30 per share)	_				(70)	_	(70	_	(70)
Distributions declared to noncontrolling interests	_	_		_	_	_	_	(59)	(59)
Balance as of March 31, 2018	\$2	\$(1)	\$1,405	\$2,436	\$ (248)	\$ 3,594	\$ 3,071	\$6,0	665
Sae accompanying Notes to Unaudited Consolida	hat	Finan	ci	al Stater	mante					

CF INDUSTRIES HOLDINGS, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

(Chaudheu)	Three mended March 2019	31, 2018	
Operating Activities:			
Net earnings	\$118	\$88	
Adjustments to reconcile net earnings to net cash provided by operating activities:			
Depreciation and amortization	188	193	
Deferred income taxes	14	29	
Stock-based compensation expense	6	6	
Unrealized net loss (gain) on natural gas derivatives	2	(3)
Unrealized loss on embedded derivative	1	—	
Loss on disposal of property, plant and equipment	1	—	
Undistributed earnings of affiliate—net of taxes	(8)	(3)
Changes in:			
Accounts receivable—net	(28)	61	
Inventories	(101)	(97)
Accrued and prepaid income taxes	24	(14)
Accounts payable and accrued expenses	(65)		
Customer advances	152	65	-
Other—net	2	(19)
Net cash provided by operating activities	306	282	
Investing Activities:			
Additions to property, plant and equipment	(80)	(68)
Proceeds from sale of property, plant and equipment	5	8	_
Distributions received from unconsolidated affiliate	_	4	
Other—net	_	1	
Net cash used in investing activities	(75)	(55)
Financing Activities:	,	`	_
Financing fees	_	1	
Dividends paid on common stock	(67)	(70)
Distributions to noncontrolling interests		(59	-
Purchases of treasury stock	(87)	_	
Issuances of common stock under employee stock plans	2	2	
Shares withheld for taxes	(4)	(1)
Net cash used in financing activities	(242)		
Effect of exchange rate changes on cash and cash equivalents	_ ′	ì	_
(Decrease) increase in cash and cash equivalents	(11)	101	
Cash and cash equivalents at beginning of period	682	835	
Cash and cash equivalents at end of period	\$671	\$93	
See accompanying Notes to Unaudited Consolidated Financial Statements.			•
1 7 5			

<u>Table of Contents</u> **CF INDUSTRIES HOLDINGS, INC.**

NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

1. Background and Basis of Presentation

We are a leading global fertilizer and chemical company. Our 3,000 employees operate world-class manufacturing complexes in Canada, the United Kingdom and the United States. Our principal customers are cooperatives, independent fertilizer distributors, traders, wholesalers, farmers and industrial users. Our principal nitrogen fertilizer products are ammonia, granular urea, urea ammonium nitrate solution (UAN) and ammonium nitrate (AN). Our other nitrogen products include diesel exhaust fluid (DEF), urea liquor, nitric acid and aqua ammonia, which are sold primarily to our industrial customers, and compound fertilizer products (NPKs), which are solid granular fertilizer products for which the nutrient content is a combination of nitrogen, phosphorus, and potassium. We serve our customers in North America through our production, storage, transportation and distribution network. We also reach a global customer base with exports from our Donaldsonville, Louisiana, plant, the world's largest and most flexible nitrogen complex. Additionally, we move product to international destinations from our Verdigris, Oklahoma, facility, our Yazoo City, Mississippi, facility, our Billingham and Ince facilities in the United Kingdom, and from a joint venture ammonia facility in the Republic of Trinidad and Tobago in which we own a 50 percent interest. All references to "CF Holdings," "the Company," "we," "us" and "our" refer to CF Industries Holdings, Inc. and its subsidiaries except where the context makes clear that the reference is only to CF Industries Holdings, Inc. itself and not its subsidiaries. All references to "CF Industries" refer to CF Industries, Inc., a 100% owned subsidiary of CF Industries Holdings, Inc.

The accompanying unaudited interim consolidated financial statements have been prepared on the same basis as our audited consolidated financial statements for the year ended December 31, 2018, in accordance with U.S. generally accepted accounting principles (GAAP) for interim financial reporting. In the opinion of management, these statements reflect all adjustments, consisting only of normal and recurring adjustments, that are necessary for the fair representation of the information for the periods presented. The accompanying unaudited interim consolidated financial statements have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). Certain information and disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted pursuant to such rules and regulations. Operating results for any period presented apply to that period only and are not necessarily indicative of results for any future period. The accompanying unaudited interim consolidated financial statements should be read in conjunction with our audited consolidated financial statements and related disclosures included in our 2018 Annual Report on Form 10-K filed with the SEC on February 22, 2019. The preparation of the unaudited interim consolidated financial statements requires us to make use of estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent liabilities at the date of the unaudited consolidated financial statements and the reported revenues and expenses for the periods presented. Significant estimates and assumptions are used for, but are not limited to, net realizable value of inventories, environmental remediation liabilities, environmental and litigation contingencies, the cost of customer incentives, useful lives of property and identifiable intangible assets, the assumptions used in the evaluation of potential impairments of property, investments, identifiable intangible assets and goodwill, income tax and valuation reserves, allowances for doubtful accounts receivable, the measurement of the fair values of investments for which markets are not active, assumptions used in the determination of the funded status and annual expense of defined benefit pension and other postretirement benefit plans and the assumptions used in the valuation of stock-based compensation awards granted to employees.

CF INDUSTRIES HOLDINGS, INC.

2. New Accounting Standards

Recently Adopted Pronouncements

On January 1, 2019, we adopted Accounting Standards Update (ASU) No. 2016-02, Leases (Topic 842), which supersedes the lease accounting requirements in ASC Topic 840, Leases. This ASU requires lessees to recognize the rights and obligations resulting from virtually all leases (other than leases that meet the definition of a short-term lease) on their balance sheets as right-of-use assets with corresponding lease liabilities. Extensive quantitative and qualitative disclosures, including significant judgments made by management, are required to provide greater insight into the extent of income and expense recognized and expected to be recognized from existing contracts. We elected the optional transition method provided under ASU No. 2018-11, Leases (Topic 842): Targeted Improvements, which provides the option to adopt ASU No. 2016-02 as of the adoption date with a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The cumulative effect adjustment we recognized in the opening balance of retained earnings as of January 1, 2019 was not material. In addition, we elected the package of practical expedients permitted under the transition guidance within ASU No. 2016-02, which allows us to carry forward the historical lease determination, lease classification, and assessment of initial direct costs. See Note 13—Leases for additional information.

On January 1, 2019, we adopted ASU No. 2017-12, Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities, which improves the financial reporting of hedging relationships in order to better portray the economic results of an entity's risk management activities in its financial statements. The adoption of this ASU had no effect on our consolidated financial statements.

Recently Issued Pronouncements

In August 2018, the Financial Accounting Standards Board issued ASU No. 2018-15, Intangibles—Goodwill and Other—Internal-Use Software (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That is a Service Contract. This ASU aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. This ASU does not affect the accounting for the service element of a hosting arrangement that is a service contract. The amendments in this ASU are effective for annual and interim periods beginning after December 15, 2019 and can be applied either retrospectively or prospectively to all implementation costs incurred after the date of adoption. Early adoption is permitted. We plan to adopt this ASU prospectively and are currently evaluating the impact that our adoption of this ASU will have on our consolidated financial statements.

CF INDUSTRIES HOLDINGS, INC.

3. Revenue Recognition

We track our revenue by product and by geography. See Note 17—Segment Disclosures for our revenue by reportable segment, which are ammonia, granular urea, UAN, AN and Other. The following table summarizes our revenue by product and by geography (based on destination of our shipment) for the three months ended March 31, 2019 and 2018:

	Ammonia Urea (in millions)	UAN	AN	Other	Total
Three months ended March 31, 2019	,				
North America	\$160 \$ 335	\$242	\$46	\$ 59	\$842
Europe and other	27 8	14	81	29	159
Total revenue	\$187 \$ 343	\$256	\$127	\$88	\$1,001
Three months ended March 31, 2018					
North America	\$168 \$ 264	\$246	\$45	\$ 59	\$782
Europe and other	44 —	37	55	39	175
Total revenue	\$212 \$ 264	\$283	\$100	\$98	\$957

As of March 31, 2019 and December 31, 2018, we had \$301 million and \$149 million, respectively, in customer advances on our consolidated balance sheets. The revenue recognized during the three months ended March 31, 2019 and 2018 that was included in our customer advances at the beginning of each respective period amounted to approximately \$85 million and \$65 million, respectively.

We offer cash incentives to certain customers based on the volume of their purchases over a certain period. These incentives do not provide an option to the customer for additional product. The balances of customer incentives accrued at March 31, 2019 and December 31, 2018 were not material.

We have certain customer contracts with performance obligations where if the customer does not take the required amount of product specified in the contract, then the customer is required to make a payment to us, which may vary based upon the terms and conditions of the applicable contract. As of March 31, 2019, excluding contracts with original durations of less than one year, and based on the minimum product tonnage to be sold and current market price estimates, our remaining performance obligations under these contracts are approximately \$1.3 billion. We expect to recognize approximately 19% of these performance obligations as revenue in the remainder of 2019, approximately 42% as revenue during 2020 and 2021, approximately 26% as revenue during 2022 and 2023, and the remainder thereafter. If these customers do not fulfill their contractual obligations under such contracts, the legally enforceable minimum amount that they would pay to us under these contracts, in the aggregate, is approximately \$285 million as of March 31, 2019. Other than the performance obligations described above, any performance obligations with our customers that were unfulfilled or partially filled at December 31, 2018 will be satisfied in 2019.

CF INDUSTRIES HOLDINGS, INC.

4. Net Earnings Per Share

Basic earnings per common share:

Diluted earnings per common share:

Dilutive common shares—stock options

Diluted weighted-average shares outstanding

Net earnings per share were computed as follows:

Three months ended March 31. 2019 2018 (in millions, except per share amounts) Net earnings attributable to common stockholders \$90 \$63 Weighted-average common shares outstanding 223.4 233.9 Net earnings attributable to common stockholders \$0.40 \$0.27 Weighted-average common shares outstanding 223.4 233.9 1.2 0.9 224.6 234.8 Net earnings attributable to common stockholders \$0.40 \$0.27

In the computation of diluted earnings per common share, potentially dilutive stock options are excluded if the effect of their inclusion is anti-dilutive. Shares for anti-dilutive stock options not included in the computation of diluted earnings per common share were 1.5 million and 2.0 million for the three months ended March 31, 2019 and 2018, respectively.

5. Inventories

Inventories consist of the following:

March 3December 31, 2019 2018 (in millions) \$405 \$ 272 37

Finished goods Raw materials, spare parts and supplies 41 Total inventories \$446 \$ 309

CF INDUSTRIES HOLDINGS, INC.

6. Property, Plant and Equipment—Net

Property, plant and equipment—net consists of the following:

1 3/1 1 1	March 31	,December 31,
	2019	2018
	(in million	ns)
Land	\$70	\$ 69
Machinery and equipment	12,162	12,127
Buildings and improvements	882	886
Construction in progress	210	225
Property, plant and equipment ⁽¹⁾	13,324	13,307
Less: Accumulated depreciation and amortization	4,853	4,684
Property, plant and equipment—net	\$8,471	\$ 8,623

As of March 31, 2019 and December 31, 2018, we had property, plant and equipment that was accrued but unpaid of approximately

During the first quarter of 2019, we entered into an agreement to sell our Pine Bend dry bulk storage and logistics facility in Minnesota. As of March 31, 2019, the assets met the criteria to be classified as held for sale and, as a result, we reclassified the carrying value of the assets of \$10 million from property, plant and equipment—net to other current assets on our consolidated balance sheet. See Note 19—Subsequent Event for additional information.

Depreciation and amortization related to property, plant and equipment was \$183 million and \$185 million for the three months ended March 31, 2019 and 2018, respectively.

Plant turnarounds—Scheduled inspections, replacements and overhauls of plant machinery and equipment at our continuous process manufacturing facilities during a full plant shutdown are referred to as plant turnarounds. The expenditures related to turnarounds are capitalized in property, plant and equipment when incurred. The following is a summary of capitalized plant turnaround costs:

Three months ended March 31, 2019 2018 (in millions)

Net capitalized turnaround costs:

Beginning balance \$252 \$208 Additions 9 20 Depreciation (30) (28) Effect of exchange rate changes 2 1 Ending balance \$233 \$201

Scheduled replacements and overhauls of plant machinery and equipment include the dismantling, repair or replacement and installation of various components including piping, valves, motors, turbines, pumps, compressors, heat exchangers and the replacement of catalysts when a full plant shutdown occurs. Scheduled inspections are also conducted during full plant shutdowns, including required safety inspections which entail the disassembly of various components such as steam boilers, pressure vessels and other equipment requiring safety certifications. Internal employee costs and overhead amounts are not considered turnaround costs and are not capitalized.

^{(1) \$26} million and \$48 million, respectively. As of March 31, 2018 and December 31, 2017, we had property, plant and equipment that was accrued but unpaid of \$42 million and \$46 million, respectively.

CF INDUSTRIES HOLDINGS, INC.

7. Goodwill and Other Intangible Assets

The following table shows the carrying amount of goodwill by reportable segment as of March 31, 2019 and December 31, 2018:

	Ammonia Urea	UAN	AN	Other	Total
	(in millions)				
Balance as of December 31, 2018	\$586 \$828	\$576	\$292	\$71	\$2,353
Effect of exchange rate changes			6	1	7
Balance as of March 31, 2019	\$586 \$828	\$576	\$298	\$72	\$2,360

All of our identifiable intangible assets have definite lives and are presented in other assets on our consolidated balance sheets at gross carrying amount, net of accumulated amortization, as follows:

	March	31, 2019			Decemb	per 31, 2018		
	Gross Carryin Amoun (in mill		ted ion	Net	Gross Carryii Amoun	Accumulated Amortization	1	Net
Customer relationships	\$129	\$ (40)	\$89	\$127	\$ (37)		\$90
TerraCair brand					10	(10)		
Trade names	32	(6)	26	30	(5)		25
Total intangible assets	\$161	\$ (46)	\$115	\$167	\$ (52)		\$115

Our intangible assets are being amortized over a weighted-average life of approximately 20 years. Amortization expense of our identifiable intangible assets for each of the three-month periods ended March 31, 2019 and 2018 was \$2 million. The gross carrying amount and accumulated amortization of our intangible assets are also impacted by the effect of exchange rate changes. Total estimated amortization expense for the remainder of 2019 and each of the five succeeding fiscal years is as follows:

	Estimated Amortization
	Expense
	(in millions)
Remainder of 2019	\$ 6
2020	8
2021	8
2022	8
2023	8
2024	8

8. Equity Method Investment

We have a 50% ownership interest in Point Lisas Nitrogen Limited (PLNL), which operates an ammonia production facility in the Republic of Trinidad and Tobago. We include our share of the net earnings from this equity method investment as an element of earnings from operations because PLNL provides additional production to our operations and is integrated with our other supply chain and sales activities in the ammonia segment.

As of March 31, 2019, the total carrying value of our equity method investment in PLNL was \$100 million, \$48 million more than our share of PLNL's book value. The excess is attributable to the purchase accounting impact of our acquisition of the investment in PLNL and reflects the revaluation of property, plant and equipment. The increased basis for property, plant and equipment is being amortized over a remaining period of approximately 14 years. Our equity in earnings of PLNL is different from our ownership interest in income reported by PLNL due to amortization of this basis difference.

We have transactions in the normal course of business with PLNL reflecting our obligation to purchase 50% of the ammonia produced by PLNL at current market prices. Our ammonia purchases from PLNL totaled \$22 million and \$29 million for the three months ended March 31, 2019 and 2018, respectively.

CF INDUSTRIES HOLDINGS, INC.

The Trinidadian tax authority (the Board of Inland Revenue) has issued PLNL a tax assessment with respect to tax years 2011 and 2012 in the aggregate amount of approximately \$12 million, in addition to interest and penalties with respect to tax years 2011 and 2012 in the aggregate amount of approximately \$22 million, for alleged underpayment of withholding taxes on distributions made by PLNL to its owners. Since we own a 50% interest in PLNL, our effective share of any assessment that is determined to be a liability of PLNL would be 50%, which would be reflected as a reduction in our equity in earnings of PLNL. The Board of Inland Revenue has not provided PLNL with the legal or factual basis for the assessment. As a result, PLNL cannot assess the likelihood of the outcome of this matter and we cannot assess the potential foreign tax credit we may be eligible for, if the withholding tax amount was determined to be a liability of PLNL.

9. Fair Value Measurements

Our cash and cash equivalents and other investments consist of the following:

	March	31, 2019		
	Cost		Unrealized	
	Basis (in mill	Gains	Losses	Value
C 1	`.		Ф	Φ 7 2
Cash	\$73	\$ -	-\$ -	\$ 73
Cash equivalents:				
U.S. and Canadian government obligations	562			562
Other debt securities	36	_	_	36
Total cash and cash equivalents	\$671	\$ -	-\$ -	\$671
Nonqualified employee benefit trusts	17	2	_	19
	December 31, 2018			
	Decem	ber 31, 2018		
	December Cost		Unrealized	Fair
			Unrealized Losses	Fair Value
	Cost	Unrealized Gains		
Cash	Cost Basis	Unrealized Gains		
Cash Cash equivalents:	Cost Basis (in mill	Unrealized Gains ions)		Value
	Cost Basis (in mill \$34	Unrealized Gains ions)		Value
Cash equivalents:	Cost Basis (in mill \$34	Unrealized Gains ions)		Value -\$34
Cash equivalents: U.S. and Canadian government obligations	Cost Basis (in mill \$34	Unrealized Gains ions) \$ -		Value -\$34 623

Under our short-term investment policy, we may invest our cash balances, either directly or through mutual funds, in several types of investment-grade securities, including notes and bonds issued by governmental entities or corporations. Securities issued by governmental entities include those issued directly by the U.S. and Canadian federal governments; those issued by state, local or other governmental entities; and those guaranteed by entities affiliated with governmental entities.

CF INDUSTRIES HOLDINGS, INC.

Assets and Liabilities Measured at Fair Value on a Recurring Basis

The following tables present assets and liabilities included in our consolidated balance sheets as of March 31, 2019 and December 31, 2018 that are recognized at fair value on a recurring basis, and indicate the fair value hierarchy utilized to determine such fair value:

	March 3	1, 2019				
	Total Fair Value	Markets	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)		
~	(in millio		Φ.	•		
Cash equivalents	\$598	\$ 598	\$ —	\$ —		
Nonqualified employee benefit trusts	19	19	_			
Embedded derivative liability	(22)		(22)			
	December 31, 2018					
	Decembe	er 31, 2018				
	Decembe Total Fair Value	Quoted Prices in Active Markets	Significant Other Observable	Significant Unobservable Inputs (Level 3)		
	Total Fair	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs	Unobservable Inputs		
Cash equivalents	Total Fair Value	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs	Unobservable Inputs		
Cash equivalents Nonqualified employee benefit trusts	Total Fair Value (in million \$648	Quoted Prices in Active Markets (Level 1) ons)	Significant Other Observable Inputs (Level 2)	Unobservable Inputs (Level 3)		

Cash Equivalents

As of March 31, 2019 and December 31, 2018, our cash equivalents consisted primarily of U.S. and Canadian government obligations and money market mutual funds that invest in U.S. government obligations and other investment-grade securities.

Nonqualified Employee Benefit Trusts

We maintain trusts associated with certain nonqualified supplemental pension plans. The fair values of the trust assets are based on daily quoted prices in an active market, which represents the net asset values of the shares held in the trusts, and are included on our consolidated balance sheets in other assets. Debt securities are accounted for as available-for-sale securities. Changes in the fair value of equity securities in the trust assets are recognized through earnings.

Embedded Derivative Liability

Under the terms of our strategic venture with CHS Inc. (CHS), if our credit rating as determined by two of three specified credit rating agencies is below certain levels, we are required to make a non-refundable yearly payment of \$5 million to CHS. Since our credit ratings were below certain levels in 2016, 2017 and 2018, we made a payment of \$5 million to CHS in the fourth quarter of each year. These payments will continue on a yearly basis until the earlier of the date that our credit rating is upgraded to or above certain levels by two of the three specified credit rating agencies or February 1, 2026. This obligation is recognized on our consolidated balance sheets as an embedded derivative. As of March 31, 2019 and December 31, 2018, the embedded derivative liability of \$22 million and \$21 million, respectively, is included in other current liabilities and other liabilities on our consolidated balance sheets. Included in other operating—net in our consolidated statement of operations for the three months ended March 31, 2019 is a net loss of \$1 million. For the three months ended March 31, 2018, no loss was recognized.

The inputs into the fair value measurement include the probability of future upgrades and downgrades of our credit rating based on historical credit rating movements of other public companies and the discount rates to be applied to potential annual payments based on applicable credit spreads of other public companies at different credit rating

levels. Based on these inputs, our fair value measurement is classified as Level 2. See Note 14—Noncontrolling Interests for additional information regarding our strategic venture with CHS.

CF INDUSTRIES HOLDINGS, INC.

Financial Instruments

The carrying amount and estimated fair value of our financial instruments are as follows:

March 31, 2019 December 31, 2018
Carrying Fair
Amount Value
(in millions) Carrying Fair
Amount Value

Long-term debt \$4,700 \$4,555 \$4,698 \$4,265

The fair value of our long-term debt was based on quoted prices for identical or similar liabilities in markets that are not active or valuation models in which all significant inputs and value drivers are observable and, as a result, they are classified as Level 2 inputs.

The carrying amounts of cash and cash equivalents, as well as instruments included in other current assets and other current liabilities that meet the definition of financial instruments, approximate fair values because of their short-term maturities.

Assets and Liabilities Measured at Fair Value on a Nonrecurring Basis

We also have assets and liabilities that may be measured at fair value on a nonrecurring basis; that is, the assets and liabilities are not measured at fair value on an ongoing basis, but are subject to fair value adjustments in certain circumstances, such as when there is evidence of impairment, when there is allocation of purchase price in an acquisition or when a new liability is being established that requires fair value measurement. These include long-lived assets, goodwill and other intangible assets and investments in unconsolidated subsidiaries, such as equity method investments, which may be written down to fair value as a result of impairment. The fair value measurements related to each of these rely primarily on Company-specific inputs and the Company's assumptions about the use of the assets. Since certain of the Company's assumptions would involve inputs that are not observable, these fair values would reside within Level 3 of the fair value hierarchy.

10. Income Taxes

For the three months ended March 31, 2019, we recorded an income tax benefit of \$8 million on pre-tax income of \$110 million, or an effective tax rate of (7.3)%, compared to an income tax provision of \$17 million on pre-tax income of \$105 million, or an effective tax rate of 15.8%, for the three months ended March 31, 2018. For the three months ended March 31, 2019, our income tax benefit includes an incentive tax credit from the State of Louisiana of \$30 million, net of federal income tax, related to certain capital projects at our Donaldsonville, Louisiana complex.

Our effective tax rate is also impacted by earnings attributable to noncontrolling interests in CF Industries Nitrogen, LLC (CFN) and in the first quarter of 2018 by earnings attributable to the noncontrolling interests in Terra Nitrogen Company, L.P. (TNCLP), as our consolidated income tax provision (benefit) does not include a tax provision on the earnings attributable to the noncontrolling interests. Our effective tax rate for the three months ended March 31, 2019 of (7.3)%, which is based on pre-tax income of \$110 million, would be 27.4% exclusive of the earnings attributable to the noncontrolling interests of \$28 million and the incentive tax credit of \$30 million. Our effective tax rate for the three months ended March 31, 2018 of 15.8%, which is based on pre-tax income of \$105 million, would be 20.8% exclusive of the earnings attributable to the noncontrolling interests of \$25 million. See Note 14—Noncontrolling Interests for additional information.

CF INDUSTRIES HOLDINGS, INC.

11. Interest Expense

Interest on borrowings⁽¹⁾

Interest on tax liabilities

Interest capitalized

Total interest expense

Details of interest expense are as follows:

Three months ended March 31, 2019 2018 (in millions) \$57 \$57 Fees on financing agreements⁽¹⁾ 3 3 - 1 — (1) \$60 \$60

12. Financing Agreements

Revolving Credit Agreement

We have a senior secured revolving credit agreement (the Revolving Credit Agreement) providing for a revolving credit facility of up to \$750 million with a maturity of September 18, 2020. The Revolving Credit Agreement includes a letter of credit sub-limit of \$125 million. Borrowings under the Revolving Credit Agreement may be used for working capital and general corporate purposes. CF Industries, the borrower under the Revolving Credit Agreement, may also designate as borrowers one or more wholly owned subsidiaries that are organized in the United States or any state thereof or the District of Columbia.

Borrowings under the Revolving Credit Agreement may be denominated in dollars, Canadian dollars, euros and British pounds, and bear interest at a per annum rate equal to an applicable eurocurrency rate or base rate plus, in either case, a specified margin, and the borrowers are required to pay an undrawn commitment fee on the undrawn portion of the commitments under the Revolving Credit Agreement and customary letter of credit fees. The specified margin and the amount of the commitment fee depend on CF Holdings' credit rating at the time.

The guarantors under the Revolving Credit Agreement are currently comprised of CF Holdings and CF Holdings' wholly owned subsidiaries CF Industries Enterprises, LLC (CFE), CF Industries Sales, LLC (CFS), CF USA Holdings, LLC (CF USA) and CF Industries Distribution Facilities, LLC (CFIDF).

As of March 31, 2019, we had excess borrowing capacity under the Revolving Credit Agreement of \$750 million and no outstanding letters of credit. There were no borrowings outstanding under the Revolving Credit Agreement as of March 31, 2019 or December 31, 2018, or during the three months ended March 31, 2019.

The Revolving Credit Agreement contains representations and warranties and affirmative and negative covenants, including financial covenants. As of March 31, 2019, we were in compliance with all covenants under the Revolving Credit Agreement.

Letters of Credit

In addition to the letter of credit capacity under the Revolving Credit Agreement, as described above, we have also entered into a bilateral agreement with capacity to issue letters of credit up to \$145 million (reflecting an increase of \$20 million in January 2019). As of March 31, 2019, approximately \$127 million of letters of credit were outstanding under this agreement.

⁽¹⁾ See Note 12—Financing Agreements for additional information.

CF INDUSTRIES HOLDINGS, INC.

Senior Notes

Long-term debt presented on our consolidated balance sheets as of March 31, 2019 and December 31, 2018 consisted of the following Public Senior Notes (unsecured) and Senior Secured Notes issued by CF Industries:

		March 31, 2019		December	31, 2018		
	Effective Interest Rate	Principal	Carrying Amount	Principal	Carrying Amount		
		(in millions)					
Public Senior Notes:							
7.125% due May 2020	7.529%	\$500	\$498	\$500	\$497		
3.450% due June 2023	3.562%	750	747	750	747		
5.150% due March 2034	5.279%	750	740	750	740		
4.950% due June 2043	5.031%	750	742	750	741		
5.375% due March 2044	5.465%	750	741	750	741		
Senior Secured Notes:							
3.400% due December 2021	3.782%	500	495	500	495		
4.500% due December 2026	4.759%	750	737	750	737		
Total long-term debt		\$4,750	\$4,700	\$4,750	\$4,698		

Carrying amount is net of unamortized debt discount and deferred debt issuance costs. Total unamortized debt discount was \$10 million and \$11 million as of March 31, 2019 and December 31, 2018, respectively, and total deferred debt issuance costs were \$40 million and \$41 million as of March 31, 2019 and December 31, 2018, respectively.

Public Senior Notes

Under the indentures (including the applicable supplemental indentures) governing the senior notes due 2020, 2023, 2034, 2043 and 2044 identified in the table above (the Public Senior Notes), each series of Public Senior Notes is guaranteed by CF Holdings and CF Holdings' wholly owned subsidiaries CFE, CFS, CF USA and CFIDF. CFE, CFS, CF USA and CFIDF became subsidiary guarantors of the Public Senior Notes as a result of their becoming guarantors under the Revolving Credit Agreement. Interest on the Public Senior Notes is payable semiannually, and the Public Senior Notes are redeemable at our option, in whole at any time or in part from time to time, at specified make-whole redemption prices.

Senior Secured Notes

On November 21, 2016, CF Industries issued \$500 million aggregate principal amount of 3.400% senior secured notes due 2021 (the 2021 Notes) and \$750 million aggregate principal amount of 4.500% senior secured notes due 2026 (the 2026 Notes, and together with the 2021 Notes, the Senior Secured Notes). CF Holdings and the subsidiary guarantors of the Public Senior Notes are also guarantors of the Senior Secured Notes. Interest on the Senior Secured Notes is payable semiannually on December 1 and June 1, and the Senior Secured Notes are redeemable at our option, in whole at any time or in part from time to time, at specified make-whole redemption prices.

CF INDUSTRIES HOLDINGS, INC.

13. Leases

Right-of-use (ROU) assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. ROU assets and lease liabilities are recognized at the lease commencement date based on the present value of lease payments over the lease term. The discount rate used to calculate the present value represents our secured incremental borrowing rate and is calculated based on the treasury yield curve commensurate with the term of each lease, and a spread representative of our secured borrowing costs. Our lease terms may include options to extend or terminate the lease when it is reasonably certain that we will exercise that option.

For operating leases, rental payments, including rent holidays, leasehold incentives, and scheduled rent increases are expensed on a straight-line basis. For finance leases, if any, ROU assets are amortized over the lease term on a straight-line basis and interest expense is recognized using the effective interest method and based on the lease liability at period end. Leasehold improvements are amortized over the shorter of the depreciable lives of the corresponding fixed assets or the lease term including any applicable renewals. We have made an accounting policy election to not include leases with an initial term of 12 months or less on the balance sheet.

We have operating leases for certain property and equipment under various noncancelable agreements, the most significant of which are rail car leases and barge tow charters for the distribution of our products. The rail car leases currently have minimum terms ranging from one to eleven years and the barge tow charter commitments range from one to seven years. Our rail car leases and barge tow charters commonly contain provisions for automatic annual renewal that can extend the lease term unless canceled by either party. We also have operating leases for terminal and warehouse storage for our distribution system, some of which contain minimum throughput requirements. The storage agreements contain minimum terms generally ranging from one to three years and commonly contain provisions for automatic annual renewal thereafter unless canceled by either party. The renewal provisions for our rail car leases, barge tow charters and terminal and warehouse storage agreements are not reasonably certain to be exercised. For all rail car leases, barge tow charters, and terminal and warehouse storage agreements, we have made an accounting policy election to not separate lease and non-lease components, such as operating costs and maintenance, due to the unavailability of sufficient data. As a result, the non-lease components are included in the ROU assets and lease liabilities on our balance sheet.

The components of lease costs were as follows:

Three months ended March 31 2019

millions)

Operating lease cost \$ 23 Short-term lease cost 7

Total lease cost \$ 30

Supplemental cash flow information related to leases was as follows:

Three months ended March 31, 2019 (in millions) \$ 20

Operating cash flows - cash paid for amounts included in the measurement of operating lease liabilities ROU assets obtained in exchange for operating lease obligations

Supplemental balance sheet information related to leases was as follows:

Three months ended March 31, 2019 (in millions)

Operating lease ROU assets \$ 285

Current operating lease liabilities \$ 85 Operating lease liabilities 203 Total operating lease liabilities \$ 288

Operating leases

CF INDUSTRIES HOLDINGS, INC.

Weighted average discount rate⁽¹⁾

Three months ended March 31, 2019 Weighted average remaining lease term 5 years

The following table reconciles the undiscounted cash flows for our operating leases to the operating lease liabilities recorded on our consolidated balance sheet as of March 31, 2019.

Operating

	lease paymen (in millions	ts
Remainder of 2019	\$ 65	
2020	80	
2021	59	
2022	41	
2023	27	
Thereafter	55	
Total lease payments	327	
Less: imputed interest	(39)
Total operating lease liabilities	288	
Less: Current operating lease liabilities	(85)
Long-term operating lease liabilities	\$ 203	

As of March 31, 2019, we have entered into additional leases that had not yet commenced. These leases have been excluded from total operating lease liabilities and will commence in fiscal years 2019 and 2020 with future minimum payments of \$19 million and lease terms ranging from five to ten years.

As previously disclosed in our 2018 Annual Report on Form 10-K and under the previous lease accounting standard, the future minimum lease payments for operating leases having initial or remaining noncancelable lease terms in excess of one year as of December 31, 2018 were as follows:

•	Operating
	lease
	payments
	(in
	millions)
2019	\$ 93
2020	80
2021	59
2022	41
2023	28
Thereafter	62
Total lease payments	\$ 363

⁽¹⁾ Upon adoption of the new lease standard, discount rates used for existing leases were established at January 1, 2019. See Note 2—New Accounting Standards.

CF INDUSTRIES HOLDINGS, INC.

14. Noncontrolling Interests

A reconciliation of the beginning and ending balances of noncontrolling interests and distributions payable to noncontrolling interests in our consolidated balance sheets is provided below.

	Three mon March 31,				
	2019	2018			
	CFN	CFN	TNCLP	Total	
	(in millions	s)			
Noncontrolling interests:					
Beginning balance	\$2,773	\$2,772	\$333	\$3,105	
Earnings attributable to noncontrolling interests	28	17	8	25	
Declaration of distributions payable	(86)	(49)	(10)	(59)	
Ending balance	\$2,715	\$2,740	\$331	\$3,071	
Distributions payable to noncontrolling interests:					
Beginning balance	\$ —	\$ —	\$—	\$ —	
Declaration of distributions payable	86	49	10	59	
Distributions to noncontrolling interests	(86)	(49)	(10)	(59)	
Ending balance	\$ —	\$ —	\$—	\$ —	

CF Industries Nitrogen, LLC (CFN)

We have a strategic venture with CHS under which they own an equity interest in CFN, a subsidiary of CF Holdings, which represents approximately 11% of the membership interests of CFN. We own the remaining membership interests. Under the terms of CFN's limited liability company agreement, each member's interest will reflect, over time, the impact of the profitability of CFN and any member contributions made to, and distributions received from, CFN. For financial reporting purposes, the assets, liabilities and earnings of the strategic venture are consolidated into our financial statements. CHS' interest in the strategic venture is recorded in noncontrolling interests in our consolidated financial statements. CHS also receives deliveries pursuant to a supply agreement under which CHS has the right to purchase annually from CFN up to approximately 1.1 million tons of granular urea and 580,000 tons of UAN at market prices. As a result of its equity interest in CFN, CHS is entitled to semi-annual cash distributions from CFN. We are also entitled to semi-annual cash distributions from CFN. The amounts of distributions from CFN to us and CHS are based generally on the profitability of CFN and determined based on the volume of granular urea and UAN sold by CFN to us and CHS pursuant to supply agreements, less a formula driven amount based primarily on the cost of natural gas used to produce the granular urea and UAN, and adjusted for the allocation of items such as operational efficiencies and overhead amounts. Additionally, under the terms of the strategic venture, we recognized an embedded derivative related to our credit rating. See Note 9—Fair Value Measurements for additional information. Terra Nitrogen Company, L.P. (TNCLP)

On February 7, 2018, we announced that, in accordance with the terms of TNCLP's First Amended and Restated Agreement of Limited Partnership (as amended by Amendment No. 1 to the First Amended and Restated Agreement of Limited Partnership, the TNCLP Agreement of Limited Partnership), Terra Nitrogen GP Inc. (TNGP), the sole general partner of TNCLP and an indirect wholly owned subsidiary of CF Holdings, elected to exercise its right to purchase all of the 4,612,562 publicly traded common units of TNCLP (the TNCLP Public Units). On April 2, 2018, TNGP completed its purchase of the TNCLP Public Units (the Purchase) for an aggregate cash purchase price of \$388 million, at which time we recognized a reduction in paid-in capital of \$62 million; a deferred tax liability of \$5 million; and the removal of the TNCLP noncontrolling interests of \$331 million. Upon completion of the Purchase, CF Holdings owned, through its subsidiaries, 100 percent of the general and limited partnership interests of TNCLP.

CF INDUSTRIES HOLDINGS, INC.

Prior to April 2, 2018, TNCLP was a master limited partnership that owned a nitrogen fertilizer manufacturing facility in Verdigris, Oklahoma. We owned approximately 75.3% of TNCLP through general and limited partnership interests and outside investors owned the remaining approximately 24.7% of the limited partnership. For financial reporting purposes, the assets, liabilities and earnings of the partnership were consolidated into our financial statements. The outside investors' limited partnership interests in TNCLP were recorded in noncontrolling interests in our consolidated financial statements. The noncontrolling interest represented the noncontrolling unitholders' interest (prior to the Purchase) in the earnings and equity of TNCLP. Affiliates of CF Industries were required to purchase all of TNCLP's fertilizer products at market prices as defined in the Amendment to the General and Administrative Services and Product Offtake Agreement, dated September 28, 2010.

Prior to April 2, 2018, TNCLP made cash distributions to the general and limited partners based on formulas defined within the TNCLP Agreement of Limited Partnership. Cash available for distribution (Available Cash) was defined in the TNCLP Agreement of Limited Partnership generally as all cash receipts less all cash disbursements, less certain reserves (including reserves for future operating and capital needs) established as the general partner determined in its reasonable discretion to be necessary or appropriate. Changes in working capital affected Available Cash, as increases in the amount of cash invested in working capital items (such as increases in receivables or inventory and decreases in accounts payable) reduced Available Cash, while declines in the amount of cash invested in working capital items increased Available Cash. Cash distributions to the limited partners and general partner varied depending on the extent to which the cumulative distributions exceeded certain target threshold levels set forth in the TNCLP Agreement of Limited Partnership.

15. Stockholders' Equity

Treasury Stock

On August 1, 2018, our Board of Directors (the Board) authorized the repurchase of up to \$500 million of CF Holdings common stock through June 30, 2020 (the 2018 Share Repurchase Program). In 2018, we completed the 2018 Share Repurchase Program with the repurchase of 10.9 million shares for \$500 million, of which \$33 million was accrued and unpaid at December 31, 2018. In February 2019, we retired all 10.9 million shares that were repurchased under the 2018 Share Repurchase Program.

On February 13, 2019, the Board authorized the repurchase of up to \$1 billion of CF Holdings common stock through December 31, 2021 (the 2019 Share Repurchase Program). Repurchases under the 2019 Share Repurchase Program may be made from time to time in the open market, through privately negotiated transactions, block transactions or otherwise. The manner, timing and amount of repurchases will be determined by our management based on the evaluation of market conditions, stock price, and other factors. In the first quarter of 2019, we repurchased approximately 1.5 million shares for \$60 million, of which \$6 million was accrued and unpaid at March 31, 2019. At March 31, 2019, we held 1,546,005 shares of treasury stock.

Accumulated Other Comprehensive Income (Loss)

Changes to accumulated other comprehensive income (loss) are as follows:

	Gain (Loss)	Gain (Loss on	s)	Defined Benefit Plans		
(in million	s)					
\$(145)	\$ 1	\$	4	\$(123)	\$ (263)
_	(1)	—		_	(1)
_	_	—		1	1	
17	_			(2)	15	
\$(128)	\$ —	\$	4	\$(124)	\$ (248)
	Currency Translation Adjustment (in million	Foreign Gain Currency (Loss) Translation Adjustment Securities (in millions) \$(145) \$ 1	Foreign Gain Currency (Loss) Translation Adjustment Securities (in millions) \$(145) \$ 1 \$	Currency (Loss) Translation Adjustment Securities (in millions) \$(145) \$ 1	Foreign Gain Currency (Loss) (Loss) Benefit Translation On Adjustment Securities (in millions) \$ (145) \$ 1 \$ 4 \$ (123) \$ - (1) 1 \$ 1 \$ 17 - (2)	Foreign Gain Currency (Loss) (Loss) Benefit Plans (Loss) Income (Loss) (in millions) \$ (145) \$ 1 \$ 4 \$ (123) \$ (263) \$ (263) \$ (263) \$ (175)

Balance as of December 31, 2018	\$(250) \$ —	\$ 5	\$(126) \$ (371)
Effect of exchange rate changes and deferred taxes	32 —		(2) 30	
Balance as of March 31, 2019	\$(218) \$ —	\$ 5	\$(128) \$ (341)

Reclassifications out of accumulated other comprehensive income (loss) to earnings during the three months ending March 31, 2019 and 2018 were not material.

CF INDUSTRIES HOLDINGS, INC.

16. Contingencies

Litigation

West Fertilizer Co.

On April 17, 2013, there was a fire and explosion at the West Fertilizer Co. fertilizer storage and distribution facility in West, Texas. According to published reports, 15 people were killed and approximately 200 people were injured in the incident, and the fire and explosion damaged or destroyed a number of homes and buildings around the facility. Various subsidiaries of CF Industries Holdings, Inc. (the CF Entities) were named as defendants along with other companies in lawsuits filed in 2013, 2014 and 2015 in the District Court of McLennan County, Texas by the City of West, individual residents of the County and other parties seeking recovery for damages allegedly sustained as a result of the explosion. The cases were consolidated for discovery and pretrial proceedings in the District Court of McLennan County under the caption "In re: West Explosion Cases." The two-year statute of limitations expired on April 17, 2015. As of that date, over 400 plaintiffs had filed claims, including at least 9 entities, 325 individuals, and 80 insurance companies. Plaintiffs allege various theories of negligence, strict liability, and breach of warranty under Texas law. Although we do not own or operate the facility or directly sell our products to West Fertilizer Co., products that the CF Entities manufactured and sold to others were delivered to the facility and may have been stored at the West facility at the time of the incident.

The Court granted in part and denied in part the CF Entities' Motions for Summary Judgment in August 2015. Over two hundred cases have been resolved pursuant to confidential settlements that have been or we expect will be fully funded by insurance. The remaining cases are in various stages of discovery and pre-trial proceedings. The next group of cases was reset for trial beginning on July 23, 2019. We believe we have strong legal and factual defenses and intend to continue defending the CF Entities vigorously in the pending lawsuits. The Company cannot provide a range of reasonably possible loss due to the lack of damages discovery for many of the remaining claims and the uncertain nature of this litigation, including uncertainties around the potential allocation of responsibility by a jury to other defendants or responsible third parties. The recognition of a potential loss in the future in the West Fertilizer Co. litigation could negatively affect our results in the period of recognition. However, based upon currently available information, including available insurance coverage, we do not believe that this litigation will have a material adverse effect on our consolidated financial position, results of operations or cash flows.

Other Litigation

From time to time, we are subject to ordinary, routine legal proceedings related to the usual conduct of our business, including proceedings regarding public utility and transportation rates, environmental matters, taxes and permits relating to the operations of our various plants and facilities. Based on the information available as of the date of this filing, we believe that the ultimate outcome of these routine matters will not have a material adverse effect on our consolidated financial position, results of operations or cash flows.

Environmental

From time to time, we receive notices from governmental agencies or third parties alleging that we are a potentially responsible party at certain cleanup sites under CERCLA or other environmental cleanup laws. In 2011, we received a notice from the Idaho Department of Environmental Quality (IDEQ) that alleged that we were a potentially responsible party for the cleanup of a former phosphate mine site we owned in the late 1950s and early 1960s located in Georgetown Canyon, Idaho. The current property owner and a former mining contractor received similar notices for the site. In 2014, we and the current property owner entered into a Consent Order with IDEQ and the U.S. Forest Service to conduct a remedial investigation and feasibility study of the site. In 2015, we and several other parties received a notice that the U.S. Department of the Interior and other trustees intend to undertake a natural resource damage assessment for 17 former phosphate mines in southeast Idaho, one of which is the former Georgetown Canyon mine. We are not able to estimate at this time our potential liability, if any, with respect to the cleanup of the site or a possible claim for natural resource damages. However, based on currently available information, we do not expect the remedial or financial obligations to which we may be subject involving this or other cleanup sites will have

a material adverse effect on our consolidated financial position, results of operations or cash flows.

CF INDUSTRIES HOLDINGS, INC.

17. Segment Disclosures

Our reportable segments consist of ammonia, granular urea, UAN, AN and Other. These segments are differentiated by products. Our management uses gross margin to evaluate segment performance and allocate resources. Total other operating costs and expenses (consisting of selling, general and administrative expenses and other operating—net) and non-operating expenses (interest and income taxes) are centrally managed and are not included in the measurement of segment profitability reviewed by management.

Our assets, with the exception of goodwill, are not monitored by or reported to our chief operating decision maker by segment; therefore, we do not present total assets by segment. Goodwill by segment is presented in Note 7—Goodwill and Other Intangible Assets.

Segment data for sales, cost of sales and gross margin for the three months ended March 31, 2019 and 2018 are presented in the tables below.

	Ammonia Granular Urea ⁽¹⁾ U		UAN(1)	AN(1)	Other ⁽¹⁾	Consolidated
	(in mill	ions)				
Three months ended March 31, 2019						
Net sales	\$187	\$ 343	\$256	\$127	\$ 88	\$ 1,001
Cost of sales	166	228	195	114	78	781
Gross margin	\$21	\$ 115	\$61	\$13	\$ 10	220
Total other operating costs and expenses						62
Equity in earnings of operating affiliate						7
Operating earnings						\$ 165
TTI 1 1 1 1 2 2 2010						
Three months ended March 31, 2018						
Net sales	\$212	\$ 264	\$283	\$100	\$ 98	\$ 957
Cost of sales	188	189	230	74	86	767
Gross margin	\$24	\$ 75	\$53	\$26	\$ 12	190
Total other operating costs and expenses						36
Equity in earnings of operating affiliate						7
Operating earnings						\$ 161

⁽¹⁾ The cost of the products that are upgraded into other products is transferred at cost into the upgraded product results.

CF INDUSTRIES HOLDINGS, INC.

18. Condensed Consolidating Financial Statements

The following condensed consolidating financial information is presented in accordance with SEC Regulation S-X Rule 3-10, *Financial statements of guarantors and issuers of guaranteed securities registered or being registered*, and relates to (i) the senior notes due 2020, 2023, 2034, 2043 and 2044 (described in Note 12—Financing Agreements and referred to in this report as the Public Senior Notes) issued by CF Industries, Inc. (CF Industries), a 100% owned subsidiary of CF Industries Holdings, Inc. (Parent), and guarantees of the Public Senior Notes by Parent and by CFE, CFS, CF USA and CFIDF (the Subsidiary Guarantors), which are 100% owned subsidiaries of Parent, and (ii) debt securities of CF Industries (Other Debt Securities), and guarantees thereof by Parent and the Subsidiary Guarantors, that may be offered and sold from time to time under registration statements that may be filed by Parent, CF Industries and the Subsidiary Guarantors with the SEC.

In the event that a subsidiary of Parent, other than CF Industries, becomes a borrower or a guarantor under the Revolving Credit Agreement (or any renewal, replacement or refinancing thereof), such subsidiary would be required to become a guarantor of the Public Senior Notes, provided that such requirement will no longer apply with respect to the Public Senior Notes due 2023, 2034, 2043 and 2044 following the repayment of the Public Senior Notes due 2020 or the subsidiaries of Parent, other than CF Industries, otherwise becoming no longer subject to such a requirement to guarantee the Public Senior Notes due 2020. The Subsidiary Guarantors became guarantors of the Public Senior Notes as a result of this requirement.

All of the guarantees of the Public Senior Notes are, and we have assumed for purposes of this presentation of condensed consolidating financial information that the guarantees of any Other Debt Securities would be, full and unconditional (as such term is defined in SEC Regulation S-X Rule 3-10(h)) and joint and several. The guarantee of a Subsidiary Guarantor will be automatically released with respect to a series of the Public Senior Notes (1) upon the release, discharge or termination of such Subsidiary Guarantor's guarantee of the Revolving Credit Agreement (or any renewal, replacement or refinancing thereof), (2) upon legal defeasance with respect to the Public Senior Notes of such series or satisfaction and discharge of the indenture with respect to such series of Public Senior Notes or (3) in the case of the Public Senior Notes due 2023, 2034, 2043 and 2044, upon the discharge, termination or release of, or the release of such Subsidiary Guarantor from its obligations under, such Subsidiary Guarantor's guarantee of the Public Senior Notes due 2020, including, without limitation, any such discharge, termination or release as a result of retirement, discharge or legal or covenant defeasance of, or satisfaction and discharge of the supplemental indenture governing, the Public Senior Notes due 2020.

For purposes of the presentation of condensed consolidating financial information, the subsidiaries of Parent other than CF Industries and the Subsidiary Guarantors are referred to as the Non-Guarantors.

Presented below are condensed consolidating statements of operations, statements of comprehensive income and statements of cash flows for Parent, CF Industries, the Subsidiary Guarantors and the Non-Guarantors for the three months ended March 31, 2019 and 2018 and condensed consolidating balance sheets for Parent, CF Industries, the Subsidiary Guarantors and the Non-Guarantors as of March 31, 2019 and December 31, 2018. The condensed consolidating financial information presented below is not necessarily indicative of the financial position, results of operations, comprehensive income or cash flows of Parent, CF Industries, the Subsidiary Guarantors or the Non-Guarantors on a stand-alone basis.

In these condensed consolidating financial statements, investments in subsidiaries are presented under the equity method, in which our investments are recorded at cost and adjusted for our ownership share of a subsidiary's cumulative results of operations, distributions and other equity changes, and the eliminating entries reflect primarily intercompany transactions such as sales, accounts receivable and accounts payable and the elimination of equity investments and earnings of subsidiaries. As of March 31, 2019, two of our consolidated entities have made elections to be taxed as partnerships for U.S. federal income tax purposes and are included in the Non-Guarantors column. Due to the partnership tax treatment, these subsidiaries do not record taxes on their financial statements. The tax provision pertaining to the income of these partnerships, plus applicable deferred tax balances are reflected on the financial

statements of the parent company owner that is included in the Subsidiary Guarantors column in the following financial information. Liabilities related to benefit plan obligations are reflected on the legal entity that funds the obligation, while the benefit plan expense is included on the legal entity to which the employee provides services.

CF INDUSTRIES HOLDINGS, INC.

Condensed Consolidating Statement of Operations

	Three months ended March 31, 2019									
	Parent	t CF Industries	Subsidiary Guarantors	Non-Guarantors	Elimination	ns	Consolidated			
	(in mil									
Net sales	\$—	\$ 90	\$ 739	\$ 950	\$ (778)	\$ 1,001			
Cost of sales		88	716	753	(776)	781			
Gross margin	_	2	23	197	(2)	220			
Selling, general and administrative expenses	1	1	39	19	(2)	58			
Other operating—net	_	1	1	2			4			
Total other operating costs and expenses	1	2	40	21	(2)	62			
Equity in earnings of operating affiliates	_	1		6			7			
Operating (loss) earnings	(1)	1	(17)	182	_		165			
Interest expense	_	61	1	1	(3)	60			
Interest expense—mandatorily redeemable preferred share	r es -			1	(1)				
Interest income	(1)		(3)	(4)	4		(4)			
Net earnings of wholly owned subsidiaries	(90)	(137)	(177)		404					
Other non-operating—net		_		(1)			(1)			
Earnings before income taxes	90	77	162	185	(404)	110			
Income tax (benefit) provision		(13)	30	(25)			(8)			
Net earnings	90	90	132	210	(404)	118			
Less: Net earnings attributable to noncontrolling interests	s —	_	_	28	_		28			
Net earnings attributable to common stockholders	\$90	\$ 90	\$ 132	\$ 182	\$ (404)	\$ 90			

Condensed Consolidating Statement of Comprehensive Income

	Three months ended March 31, 2019									
	Parent	CF Industries	Subsidiary Guarantors	Non-Guarantors Eliminations Consolidated						
	(in mill	ions)								
Net earnings	\$90	\$ 90	\$ 132	\$ 210	\$ (404)	\$ 118				
Other comprehensive income	31	31	20	31	(83)	30				
Comprehensive income	121	121	152	241	(487)	148				
Less: Comprehensive income attributable to noncontrolling interests	_	_	_	28	_	28				
Comprehensive income attributable to common stockholders	s\$121	\$ 121	\$ 152	\$ 213	\$ (487)	\$ 120				

CF INDUSTRIES HOLDINGS, INC.

Condensed Consolidating Statement of Operations

	Three months ended March 31, 2018										
	Parent	CF Industri	es	Subsidiar Guarante	•	Non-Guaran	tors	Eliminati	ons	Consolida	ated
	(in mil	,									
Net sales	\$ —	\$ 105		\$ 712		\$ 885		\$ (745)	\$ 957	
Cost of sales		90		716		700		(739)	767	
Gross margin	_	15		(4)	185		(6)	190	
Selling, general and administrative expenses	1	1		39		22		(6)	57	
Other operating—net	_	(13)	(3)	(5)	_		(21)
Total other operating costs and expenses	1	(12)	36		17		(6)	36	
Equity in earnings of operating affiliates		3				4				7	
Operating (loss) earnings	(1)	30		(40)	172		_		161	
Interest expense	_	62		4		1		(7)	60	
Interest income	(1)	(2)	(3)	(4)	7		(3)
Net earnings of wholly owned subsidiaries	(63)	(87)	(135)			285		_	
Other non-operating—net						(1)			(1)
Earnings before income taxes	63	57		94		176		(285)	105	
Income tax (benefit) provision	_	(6)	17		6		_		17	
Net earnings	63	63		77		170		(285)	88	
Less: Net earnings attributable to noncontrolling interests	s—					25				25	
Net earnings attributable to common stockholders	\$63	\$ 63		\$ 77		\$ 145		\$ (285)	\$ 63	

Condensed Consolidating Statement of Comprehensive Income

	Three months ended March 31, 2018								
	Parent CF Indi	Subsidian stries Guaranto	y Non-Guarai	ntorsEliminations Consolidated					
	(in million	s)							
Net earnings	\$63 \$ 6	53 \$ 77	\$ 170	\$ (285) \$ 88					
Other comprehensive income	15 15	1	15	(30) 16					
Comprehensive income	78 78	78	185	(315) 104					
Less: Comprehensive income attributable to noncontrolling			25	_ 25					
interests			23						
Comprehensive income attributable to common stockholders	\$78 \$ '	78 \$ 78	\$ 160	\$ (315) \$ 79					

CF INDUSTRIES HOLDINGS, INC.

Condensed Consolidating Balance Sheet

Condensed Consonating Datanee Sheet	March 31,	2019				
	Parent	CF Industries	Subsidiary Guarantors	Non- Guarantors	Eliminations and Reclassification	Consolidated
	(in million	s)			Reclassification	
Assets						
Current assets:						
Cash and cash equivalents	\$52	\$45	\$237	\$337	\$ <i>-</i>	\$671
Accounts and notes receivable—net	137	506	1,132	805	(2,316) 264
Inventories			253	193		446
Prepaid income taxes				1		1
Other current assets		_	23	7		30
Total current assets	189	551	1,645	1,343	(2,316) 1,412
Property, plant and equipment—net		_	106	8,365		8,471
Investments in affiliates	3,610	8,066	6,523	100	(18,199) 100
Goodwill		_	2,064	296		2,360
Operating lease right-of-use assets		_	280	5		285
Other assets		4	159	325	(174) 314
Total assets	\$3,799	\$8,621	\$10,777	\$10,434	\$ (20,689) \$12,942
Liabilities and Equity						
Current liabilities:						
Accounts and notes payable and accrued expenses	\$844	\$296	\$1,298	\$310	\$ (2,316) \$432
Income taxes payable		_	3			3
Customer advances		_	301			301
Current operating lease liabilities		_	83	2		85
Other current liabilities		_	5			5
Total current liabilities	844	296	1,690	312	(2,316) 826
Long-term debt		4,700	43	130	(173) 4,700
Dividends payable—mandatorily redeemable preferred	ed			1	(1	`
shares	_	_	_	1	(1) —
Deferred income taxes		_	979	156		1,135
Operating lease liabilities		_	200	3		203
Other liabilities		15	233	160		408
Equity:						
Stockholders' equity:						
Preferred stock						
Common stock	2			4,964	(4,964) 2
Paid-in capital	1,311	1,799	8,760	1,263	(11,822) 1,311
Retained earnings	2,047	2,152	(863)	1,015) 2,047
Treasury stock	(64)	_	_	_		(64)
Accumulated other comprehensive loss	(341)	(341)	(257)	(293)	891	(341)
Total stockholders' equity	2,955	3,610	7,640	6,949) 2,955
Noncontrolling interests				2,723	_	2,715
Total equity	2,955	3,610	7,632	9,672	(18,199) 5,670
Total liabilities and equity	\$3,799	\$8,621	\$10,777	\$10,434	\$ (20,689	\$12,942

CF INDUSTRIES HOLDINGS, INC.

Condensed Consolidating Balance Sheet

J	December	31, 2018						
	Parent	CF Industries	Subsidiary Guarantors	Non- Guarantors	Eliminations and Reclassifications	Consolidated		
	(in million	s)			Reclassifications			
Assets								
Current assets:								
Cash and cash equivalents	\$36	\$27	\$65	\$554	\$ <i>—</i>	\$682		
Accounts and notes receivable—net	135	500	1,203	911	(2,514)	235		
Inventories	_	4	142	163		309		
Prepaid income taxes	_	_	24	4		28		
Other current assets	_	_	15	5	_	20		
Total current assets	171	531	1,449	1,637	(2,514)	1,274		
Property, plant and equipment—net	_	_	118	8,505	_	8,623		
Investments in affiliates	3,656	8,208	6,857	94	(18,722)	93		
Goodwill			2,064	289	_	2,353		
Other assets		4	126	320	(132)	318		
Total assets	\$3,827	\$8,743	\$10,614	\$10,845	\$ (21,368)	\$12,661		
Liabilities and Equity								
Current liabilities:								
Accounts and notes payable and accrued expenses	\$870	\$374	\$1,429	\$386	\$ (2,514)	\$ 545		
Income taxes payable			5		_	5		
Customer advances			149		_	149		
Other current liabilities			6		_	6		
Total current liabilities	870	374	1,589	386	(2,514)	705		
Long-term debt		4,698	43	89	(132)	4,698		
Deferred income taxes			960	157	<u> </u>	1,117		
Other liabilities	_	15	232	163		410		
Equity:								
Stockholders' equity:								
Preferred stock	_	_						
Common stock	2	_		5,363	(5,363)	2		
Paid-in capital	1,368	1,799	9,070	1,265	(12,134)	1,368		
Retained earnings	2,463	2,229	(995)	965		2,463		
Treasury stock	(504)					(504)		
Accumulated other comprehensive loss	,	(372)	(277)	(324)	974	(371)		
Total stockholders' equity	2,957	3,656	7,798	7,269		2,958		
Noncontrolling interests	_	_		2,781		2,773		
Total equity	2,957	3,656	7,790	10,050	(18,722)	5,731		
Total liabilities and equity	\$3,827	\$8,743	\$10,614	\$10,845		\$12,661		

CF INDUSTRIES HOLDINGS, INC.

Condensed Consolidating	Statement of Cash Flows
--------------------------------	--------------------------------

	Three	e months	en	ided Marc							
	Parer	rt Industi	CF Subsidiary Industries Guarantors		Non- Guaran	tors	ors Eliminations Consolida				
	(in m	illions)									
Operating Activities:											
Net earnings	\$90	\$ 90		\$ 132		\$ 210		\$ (404)	\$ 118	
Adjustments to reconcile net earnings to net cash provided by (used in) operating activities:											
Depreciation and amortization	_	2		6		180		_		188	
Deferred income taxes	_			18		(4)	_		14	
Stock-based compensation expense	6			_		_		_		6	
Unrealized net loss on natural gas derivatives				2				_		2	
Unrealized loss on embedded derivative		_		1				_		1	
Loss on disposal of property, plant and equipment	_	_		_		1		_		1	
Undistributed earnings of affiliates—net	(90)	(137)	(177)	(8)	404		(8)
Changes in:											
Intercompany accounts receivable/accounts payable—net		9		6		(15)	_		_	
Accounts receivable—net	_	(1)	(22)	(5)	_		(28)
Inventories	_	4		(114)	9		_		(101)
Accrued and prepaid income taxes	(1)	(12)	34		3		_		24	
Accounts and notes payable and accrued expenses	_	17		(40)	(42)	_		(65)
Customer advances	_			152		_		_		152	
Other—net				2						2	
Net cash provided by (used in) operating activities	5	(28)			329				306	
Investing Activities:											
Additions to property, plant and equipment	_	_		(4)	(76)			(80)
Proceeds from sale of property, plant and equipment	_	_				5				5	
Distributions received from unconsolidated affiliates	_	225		209		(434)				
Net cash provided by (used in) investing activities	_	225		205		(505)	_		(75)
Financing Activities:											
Long-term debt—net	_	_		(39)	39				_	
Short-term debt—net	_	(12)	6		6				_	
Dividends paid on common stock	(67)	(167)	_				167		(67)
Dividends to/from affiliates	167	_		_				(167)	_	
Distribution to noncontrolling interest	_	_		_		(86)	_		(86)
Purchases of treasury stock	(87)	_		_		_		_		(87)
Issuances of common stock under employee stock plans	2	_		_		_		_		2	-
Shares withheld for taxes	(4)									(4)
Net cash provided by (used in) financing activities	11	(179)	(33)	(41)	_		(242)
Increase (decrease) in cash and cash equivalents	16	18		172		(217)	_		(11)
Cash and cash equivalents at beginning of period	36	27		65		554	_			682	
Cash and cash equivalents at end of period	\$52	\$ 45		\$ 237		\$ 337		\$ —		\$ 671	

CF INDUSTRIES HOLDINGS, INC.

Condensed Consolidating Statement of Cash Flows

Condensed Consolidating Statement of Cash Flows	Thre	e months en	ded March (31, 2018			
		CF	Subsidiary		Fil	- C!: 1	.43
	Parei	"Industries	Guarantor	Guarantors	Elimination	s Consona	atea
Operating Activities:	(ın m	illions)					
Net earnings	\$63	\$ 63	\$ 77	\$ 170	\$ (285)	\$ 88	
Adjustments to reconcile net earnings to net cash (used in) provided by	ΨΟΣ	Ψ 03	Ψ	Ψ 170	Ψ (203)	Ψ 00	
operating activities:							
Depreciation and amortization		2	5	186	_	193	
Deferred income taxes		_	39	(10)	_	29	
Stock-based compensation expense	6	_	_	_	_	6	
Unrealized net loss (gain) on natural gas derivatives		_	1	(4)		(3)
Undistributed earnings of affiliates—net	(63)	(86)	(136)	(3)	285	(3)
Changes in:							
Intercompany accounts receivable/accounts payable—net	(7)	(50)	63	(6)		_	
Accounts receivable—net		_	64	(3)		61	
Inventories		4	(91)	(10)		(97)
Accrued and prepaid income taxes		(7)	(13)	6	_	(14)
Accounts and notes payable and accrued expenses		7	(5)	(26)	_	(24)
Customer advances		_	65	_	_	65	
Other—net		(1)	3	(21)		(19)
Net cash (used in) provided by operating activities	(1)	(68)	72	279	_	282	
Investing Activities:							
Additions to property, plant and equipment		_	(3)	(65)		(68)
Proceeds from sale of property, plant and equipment		_	_	8	_	8	
Distributions received from unconsolidated affiliates		_	144	(140)	_	4	
Investments in consolidated subs - capital contributions		(31)	(415)	446	_	_	
Other—net			_	1	_	1	
Net cash (used in) provided by investing activities		(31)	(274)	250	_	(55)
Financing Activities:							
Long-term debt—net	_		178	(178)	_	_	
Short-term debt—net	70	98	(275)	107	_	_	
Financing fees		1	_	_	_	1	
Dividends paid on common stock	(70)	_	_	(49)	49	(70)
Dividends to/from affiliates		_	49	_	(49)	_	
Distributions to noncontrolling interests			_	(59)	_	(59)
Issuances of common stock under employee stock plans	2	_	_	_		2	
Shares withheld for taxes	(1)	_	_	_	_	(1)
Net cash provided by (used in) financing activities	1	99	(48)	(179)	_	(127)
Effect of exchange rate changes on cash and cash equivalents	_	_	_	1		1	
(Decrease) increase in cash and cash equivalents	_	_	(250)	351		101	
Cash and cash equivalents at beginning of period	_	15	388	432	_	835	
Cash and cash equivalents at end of period	\$	\$ 15	\$ 138	\$ 783	\$ —	\$ 936	

CF INDUSTRIES HOLDINGS, INC.

19. Subsequent Event

During the first quarter of 2019, we entered into an agreement to sell our Pine Bend dry bulk storage and logistics facility in Minnesota. In April of 2019, we completed the sale and received proceeds of \$55 million. See Note 6—Property, Plant and Equipment—Net for additional information.

CF INDUSTRIES HOLDINGS, INC.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

You should read the following discussion and analysis in conjunction with our annual consolidated financial statements and related notes, which were included in our 2018 Annual Report on Form 10-K filed with the Securities and Exchange Commission on February 22, 2019, as well as Item 1. Financial Statements, in this Form 10-Q. All references to "CF Holdings," "we," "us," "our" and "the Company" refer to CF Industries Holdings, Inc. and its subsidiaries, except where the context makes clear that the reference is only to CF Industries Holdings, Inc. itself and not its subsidiaries. All references to "CF Industries" refer to CF Industries, Inc., a 100% owned subsidiary of CF Industries Holdings, Inc. References to tons refer to short-tons. Notes referenced in this discussion and analysis refer to the notes to our unaudited interim consolidated financial statements that are found in the preceding section: Item 1. Financial Statements. The following is an outline of the discussion and analysis included herein:

Overview of CF Holdings

Our Company

Items Affecting Comparability of Results

Financial Executive Summary

Results of Consolidated Operations

First Quarter of 2019 Compared to First Quarter of 2018

Operating Results by Business Segment

Liquidity and Capital Resources

Off-Balance Sheet Arrangements

Critical Accounting Policies and Estimates

Recent Accounting Pronouncements

Forward-Looking Statements

Overview of CF Holdings

Our Company

We are a leading global fertilizer and chemical company. Our 3,000 employees operate world-class manufacturing complexes in Canada, the United Kingdom and the United States. Our principal customers are cooperatives, independent fertilizer distributors, traders, wholesalers, farmers and industrial users. Our principal nitrogen fertilizer products are ammonia, granular urea, urea ammonium nitrate solution (UAN) and ammonium nitrate (AN). Our other nitrogen products include diesel exhaust fluid (DEF), urea liquor, nitric acid and aqua ammonia, which are sold primarily to our industrial customers, and compound fertilizer products (NPKs), which are solid granular fertilizer products for which the nutrient content is a combination of nitrogen, phosphorus, and potassium. We serve our customers in North America through our production, storage, transportation and distribution network. We also reach a global customer base with exports from our Donaldsonville, Louisiana, plant, the world's largest and most flexible nitrogen complex. Additionally, we move product to international destinations from our Verdigris, Oklahoma, facility, our Yazoo City, Mississippi, facility, our Billingham and Ince facilities in the United Kingdom, and from a joint venture ammonia facility in the Republic of Trinidad and Tobago in which we own a 50 percent interest. Our principal assets as of March 31, 2019 include:

five U.S. nitrogen fertilizer manufacturing facilities located in Donaldsonville, Louisiana (the largest nitrogen fertilizer complex in the world); Port Neal, Iowa; Yazoo City, Mississippi; Verdigris, Oklahoma; and Woodward, Oklahoma. These facilities are owned by CF Industries Nitrogen, LLC (CFN), of which we own approximately 89% and CHS Inc. (CHS) owns the remainder. See Note 14—Noncontrolling Interests for additional information on our strategic venture with CHS;

two Canadian nitrogen fertilizer manufacturing facilities located in Medicine Hat, Alberta (the largest nitrogen fertilizer complex in Canada) and Courtright, Ontario;

two United Kingdom nitrogen manufacturing facilities located in Billingham and Ince;

an extensive system of terminals and associated transportation equipment located primarily in the Midwestern United $^{\bullet}$ States; and

CF INDUSTRIES HOLDINGS, INC.

a 50% interest in Point Lisas Nitrogen Limited (PLNL), an ammonia production joint venture located in the Republic of Trinidad and Tobago that we account for under the equity method.

Items Affecting Comparability of Results

Sales Volume

Unfavorable weather conditions impacted the first quarter of 2019. Persistent cold and wet weather across most of North America delayed spring planting activity and fertilizer applications. High water levels impacted shipping and logistics on inland rivers and delayed certain barge shipments. This resulted in delays in certain customers taking delivery of fertilizer and other customers delaying purchases. These factors were primarily responsible for a decline in our first quarter sales volume. Sales volume for the three months ended March 31, 2019 was 4.1 million product tons, a decrease of 5% compared to sales volume of 4.3 million product tons for the three months ended March 31, 2018. This decrease in sales volume resulted in a decrease in net sales of approximately \$18 million. The sales volume of UAN and ammonia were primarily impacted by these weather factors. Partially offsetting these declines were increases in sales volumes of both granular urea and AN due primarily to increases in production of these products. *Selling Prices*

The U.S. Gulf is a major global fertilizer pricing point due to the volume of nitrogen fertilizer that trades there. In 2018, higher energy costs in Asia and Europe, along with continued enforcement of environmental regulations in China, resulted in lower nitrogen production in these regions. In addition, outages impacted the nitrogen supply and demand balance. These factors collectively drove global nitrogen prices higher throughout the latter half of 2018. Upon entering the first quarter of 2019, average selling prices were higher than the first quarter of 2018, driven by the impact of a tighter global nitrogen supply and demand balance experienced throughout late 2018. A large volume of shipments made in the first quarter of 2019 reflected higher selling prices from orders placed in the latter part of 2018 and early 2019. As the first quarter of 2019 progressed and the market became more balanced, selling prices for some nitrogen products decreased.

The average selling price for our products for the three months ended March 31, 2019 was \$245 per ton compared to \$222 per ton for the three months ended March 31, 2018, an increase of 10%, which resulted in an increase in net sales of approximately \$62 million.

Other Items Affecting Comparability

In addition to the impact of market conditions on nitrogen fertilizer selling prices and sales volume, certain items impacted the comparability of our financial results during the three months ended March 31, 2019 and 2018. The following table and related discussion outline these items and how they impacted the comparability of our financial results during these periods. During the three months ended March 31, 2019 and 2018, we reported net earnings attributable to common stockholders of \$90 million and \$63 million, respectively.

	Three Months	Ended March 31,
	2019	2018
	Pre-Tafter-Tax	Pre-TaxAfter-Tax
	(in millions)	
Unrealized net mark-to-market loss (gain) on natural gas derivatives ⁽¹⁾	\$2 \$ 1	\$(3) \$ (2)
Loss (gain) on foreign currency transactions, including intercompany loans ⁽²⁾	2 1	(5)(4)
Louisiana incentive tax credit ⁽³⁾	— (30)	
Costs related to the acquisition of TNCLP Public Units ⁽⁴⁾		2 1
Earnings attributable to noncontrolling interests - TNCLP ⁽⁵⁾		8 8

⁽¹⁾ Included in cost of sales in our consolidated statements of operations.

⁽²⁾ Included in other operating—net in our consolidated statements of operations.

⁽³⁾ Included in income tax (benefit) provision in our consolidated statement of operations.

⁽⁴⁾ Included in selling, general and administrative expenses in our consolidated statement of operations.

(5) Included in net earnings attributable to noncontrolling interests in our consolidated statement of operations.

The following describes these items, identified in the table above, that impacted the comparability of our financial results for the three months ended March 31, 2019 and 2018. Descriptions of items below that refer to amounts in the table above refer to the pre-tax amounts.

CF INDUSTRIES HOLDINGS, INC.

Unrealized net mark-to-market loss (gain) on natural gas derivatives

Natural gas is typically the largest and most volatile single component of the manufacturing cost for nitrogen-based products. At certain times, we have managed the risk of changes in natural gas prices through the use of derivative financial instruments. The derivatives that we may use for this purpose are primarily natural gas fixed price swaps, natural gas basis swaps and natural gas options. We use natural gas derivatives as an economic hedge of natural gas price risk, but without the application of hedge accounting. This can result in volatility in reported earnings due to the unrealized mark-to-market adjustments that occur from changes in the value of the derivatives, which is reflected in cost of sales in our consolidated statements of operations. In the three months ended March 31, 2019 and 2018, we recognized unrealized net mark-to-market losses (gains) of \$2 million and \$(3) million, respectively.

Loss (gain) on foreign currency transactions, including intercompany loans

In the three months ended March 31, 2019 and 2018, we recognized losses (gains) of \$2 million and \$(5) million, respectively, from the impact of changes in foreign currency exchange rates on primarily British pound and Canadian dollar denominated intercompany loans that were not permanently invested.

Louisiana incentive tax credit

For the three months ended March 31, 2019, our income tax benefit includes an incentive tax credit from the State of Louisiana of \$30 million, net of federal income tax, related to certain capital projects at our Donaldsonville, Louisiana complex.

Acquisition of the Terra Nitrogen Company, L.P. (TNCLP) Public Units

In the first quarter of 2018, we announced that, in accordance with the terms of TNCLP's First Amended and Restated Agreement of Limited Partnership (as amended by Amendment No. 1 to the First Amended and Restated Agreement of Limited Partnership), the TNCLP Agreement of Limited Partnership), Terra Nitrogen GP Inc. (TNGP), the sole general partner of TNCLP and an indirect wholly owned subsidiary of CF Holdings, elected to exercise its right to purchase all of the 4,612,562 publicly traded common units of TNCLP (the TNCLP Public Units). TNGP completed its purchase of the TNCLP Public Units on April 2, 2018 (the Purchase) for an aggregate cash purchase price of \$388 million. We funded the Purchase with cash on hand. Upon completion of the Purchase, CF Holdings owned, through its subsidiaries, 100 percent of the general and limited partnership interests of TNCLP.

In the three months ended March 31, 2018, we incurred \$2 million of costs for various legal services associated with the acquisition of the TNCLP Public Units. These costs are reflected in selling, general and administrative expenses in our consolidated statement of operations.

Beginning in the second quarter of 2018, as a result of the April 2, 2018 acquisition of the TNCLP Public Units, there are no longer earnings attributable to noncontrolling interests in TNCLP. In the three months ended March 31, 2018, earnings attributable to noncontrolling interests in TNCLP was \$8 million.

Financial Executive Summary

We reported net earnings attributable to common stockholders of \$90 million for the three months ended March 31, 2019 compared to \$63 million for the three months ended March 31, 2018, or an increase in net earnings of \$27 million between the periods. Diluted net earnings per share attributable to common stockholders increased \$0.13 per share to \$0.40 in the first quarter of 2019 compared to \$0.27 in the first quarter of 2018. The increase in net earnings of \$27 million was due primarily to the following:

Net sales were \$1.00 billion in the first quarter of 2019, an increase of \$44 million, or 5%, from \$957 million in the first quarter of 2018, reflecting an increase in average selling prices of 10% partially offset by a 5% decline in sales volume.

Gross margin increased by \$30 million in the first quarter of 2019 to \$220 million as compared to \$190 million in the first quarter of 2018. The increase in gross margin was driven by tightening supply and demand conditions in the global nitrogen market, which increased average selling prices. This increase was partially offset by higher realized natural gas costs in the first quarter of 2019 as compared to the first quarter of 2018, higher plant maintenance activity and an increase in shipping costs due to weather related factors. This is more fully described in the section above

titled "Items Affecting Comparability of Results".

In the first quarter of 2019, we recorded an income tax benefit of \$8 million on pre-tax income of \$110 million, compared to an income tax provision of \$17 million on pre-tax income of \$105 million in the first quarter of 2018.

CF INDUSTRIES HOLDINGS, INC.

The first quarter of 2019 includes an incentive tax credit from the State of Louisiana of \$30 million, which is more fully described in the section above titled "Items Affecting Comparability of Results".

On February 13, 2019, our Board of Directors (the Board) authorized the repurchase of up to \$1 billion of CF Holdings common stock through December 31, 2021 (the 2019 Share Repurchase Program). Repurchases under the 2019 Share Repurchase Program may be made from time to time in the open market, through privately negotiated transactions, block transactions or otherwise. The manner, timing and amount of repurchases will be determined by our management based on the evaluation of market conditions, stock price and other factors. In the first quarter of 2019, we repurchased approximately 1.5 million shares for \$60 million.

In April of 2019, the European Union Commission published a regulation imposing provisional anti-dumping duties on imports to the European Union of UAN manufactured in Russia, Trinidad and Tobago and the United States. The rate of the provisional anti-dumping duty applicable to imports of UAN manufactured in the United States is 22.6%. The regulation was effective on April 12, 2019 and the provisional anti-dumping duties apply for a period of six months from the effective date, at which time the provisional anti-dumping duties would be finalized, modified or canceled.

CF INDUSTRIES HOLDINGS, INC.

Results of Consolidated Operations

The following table presents our consolidated results of operations and supplemental data:

The following table presents our consolidated results of operations and sup			uata. hs Ended N	farch 31.			
	2019 2018 2019 v. 2018						
	(in millio	ns,	except as r	oted)			
Net sales	\$1,001		\$957	\$44		5	%
Cost of sales	781		767	14		2	%
Gross margin	220		190	30		16	%
Gross margin percentage	22.0	%	19.9 %	2.1	%		
Selling, general and administrative expenses	58		57	1		2	%
Other operating—net	4		(21)	25		N/N	1
Total other operating costs and expenses	62		36	26		72	%
Equity in earnings of operating affiliate	7		7			—	%
Operating earnings	165		161	4		2	%
Interest expense—net	56		57	(1)	(2)%
Other non-operating—net	(1)	(1)				%
Earnings before income taxes	110		105	5		5	%
Income tax (benefit) provision	(8)	17	(25)	N/N	1
Net earnings	118		88	30		34	%
Less: Net earnings attributable to noncontrolling interests	28		25	3		12	%
Net earnings attributable to common stockholders	\$90		\$63	\$27		43	%
Diluted net earnings per share attributable to common stockholders	\$0.40		\$0.27	\$0.13	,	48	%
Diluted weighted-average common shares outstanding	224.6		234.8	(10.2))	(4)%
Dividends declared per common share	\$0.30		\$0.30	\$ —		—	%
Natural gas supplemental data (per MMBtu)							
Natural gas costs in cost of sales ⁽¹⁾	\$3.70		\$3.32	\$0.38	j	11	%
Realized derivatives (gain) loss in cost of sales ⁽²⁾	(0.02))	0.01	(0.03))	N/N	1
Cost of natural gas in cost of sales	\$3.68		\$3.33	\$0.35	j	11	%
Average daily market price of natural gas Henry Hub (Louisiana)	\$2.89		\$3.02	\$(0.1	3)	(4)%
Average daily market price of natural gas National Balancing Point (UK)	\$6.56		\$8.20	\$(1.6	4)	(20)%
Unrealized net mark-to-market loss (gain) on natural gas derivatives	\$2		\$(3)	\$5		N/N	1
Depreciation and amortization	\$188		\$193	\$(5)	(3)%
Capital expenditures	\$80		\$68	\$12		18	%
Sales volume by product tons (000s)	4,087		4,303	(216)	(5)%
Production volume by product tons (000s):							
Ammonia ⁽³⁾	2,567		2,508	59		2	%
Granular urea	1,306		1,151	155		13	%
UAN (32%)	1,637		1,805	(168)	(9)%
AN	482		458	24		5	%

N/M-Not Meaningful

⁽¹⁾ Includes the cost of natural gas and related transportation that is included in cost of sales during the period under the first-in, first-out inventory cost method.

⁽²⁾ Includes realized gains and losses on natural gas derivatives settled during the period. Excludes unrealized mark-to-market gains and losses on natural gas derivatives.

 $_{(3)}$ Gross ammonia production, including amounts subsequently upgraded on-site into granular urea, UAN, or AN.

CF INDUSTRIES HOLDINGS, INC.

First Quarter of 2019 Compared to First Quarter of 2018

Net Sales

Our total net sales increased \$44 million, or 5%, to \$1.00 billion in the first quarter of 2019 compared to \$957 million in the first quarter of 2018 due to a 10% increase in average selling prices, which increased net sales by \$62 million, partially offset by lower sales volumes, which decreased net sales by \$18 million.

Average selling prices were \$245 per ton in the first quarter of 2019 compared to \$222 per ton in the first quarter of 2018 due to higher selling prices in our UAN, granular urea and AN segments, driven by the impact of a tighter global nitrogen supply and demand balance, partially offset by lower selling prices in our ammonia segment.

Our total sales volume decreased 5% from the first quarter of 2018 to the first quarter of 2019, due primarily to unfavorable weather including wet conditions and cold temperatures which delayed the spring application season. This impact was partially offset by higher granular urea and AN sales supported by increased production.

Cost of Sales

Our total cost of sales increased \$14 million, or 2%, from the first quarter of 2018 to the first quarter of 2019. The increase in our cost of sales was due primarily to higher realized natural gas costs, including the impact of realized derivatives, higher costs related to plant maintenance activity and an increase in shipping costs due to cold and wet weather in North America, partially offset by the impact of lower volumes. Cost of sales averaged \$191 per ton in the first quarter of 2019, a 7% increase from \$178 per ton in the same quarter of 2018. Realized natural gas costs, including the impact of realized derivatives, increased 11% from \$3.33 per MMBtu in 2018 to \$3.68 per MMBtu in 2019.

Selling, General and Administrative Expenses

Selling, general and administrative expenses were essentially unchanged at \$58 million in the first quarter of 2019 as compared to \$57 million in the comparable period of 2018.

Other Operating—Net

Other operating—net was \$4 million of expense in the first quarter of 2019 compared to \$21 million of income in the comparable period of 2018. The \$4 million of expense in the first quarter of 2019 was primarily due to foreign currency transaction losses. The income in the first quarter of 2018 was due to the combination of changes in legal reserves, unrealized foreign currency gains pertaining to British pound denominated intercompany loans and a gain due to the recovery of certain precious metals used in the manufacturing process.

Equity in Earnings of Operating Affiliate

Equity in earnings of operating affiliate was unchanged at \$7 million in both the first quarter of 2019 and the first quarter of 2018.

Interest Expense—Net

Net interest expense was essentially unchanged at \$56 million in the first quarter of 2019 compared to \$57 million in the first quarter of 2018.

Income Taxes

For the three months ended March 31, 2019, we recorded an income tax benefit of \$8 million on pre-tax income of \$110 million, or an effective tax rate of (7.3)%, compared to an income tax provision of \$17 million on pre-tax income of \$105 million, or an effective tax rate of 15.8%, for the three months ended March 31, 2018.

For the three months ended March 31, 2019, our income tax benefit includes an incentive tax credit from the State of Louisiana of \$30 million, net of federal income tax, related to certain capital projects at our Donaldsonville, Louisiana complex.

Our effective tax rate is also impacted by earnings attributable to the noncontrolling interests in CFN and in the first quarter of 2018 by earnings attributable to the noncontrolling interests in TNCLP, as our consolidated income tax (benefit) provision does not include a tax provision on the earnings attributable to the noncontrolling interests. Our effective tax rate for the three months ended March 31, 2019 of (7.3)%, which is based on pre-tax income of \$110 million, would be 27.4% exclusive of the earnings attributable to the noncontrolling interests of \$28 million and

the incentive tax credit of \$30 million. Our effective tax rate for the three months ended March 31, 2018 of 15.8%, which is based on pre-tax income of \$105 million,

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would be 20.8% exclusive of the earnings attributable to the noncontrolling interests of \$25 million. See Note 10—Income Taxes and Note 14—Noncontrolling Interests for additional information.

Net Earnings Attributable to Noncontrolling Interests

Net earnings attributable to noncontrolling interests increased \$3 million in the first quarter of 2019 compared to the first quarter of 2018 due to higher earnings from CFN driven by higher average selling prices due to the impact of a tighter global nitrogen supply and demand balance, partially offset by the reduction in noncontrolling interests due to the April 2, 2018 purchase of the noncontrolling interests in TNCLP. In the three months ended March 31, 2018, earnings attributable to noncontrolling interests in TNCLP was \$8 million.

Diluted Net Earnings Per Share Attributable to Common Stockholders

Net earnings per share attributable to common stockholders increased \$0.13 to \$0.40 per diluted share in the first quarter of 2019 from \$0.27 per diluted share in the first quarter of 2018. This increase is primarily driven by higher gross margin driven by higher average selling prices due to the impact of a tighter global nitrogen supply and demand balance entering 2019.

Operating Results by Business Segment

Our reportable segments consist of ammonia, granular urea, UAN, AN and Other. These segments are differentiated by products. Our management uses gross margin to evaluate segment performance and allocate resources. Total other operating costs and expenses (consisting of selling, general and administrative expenses and other operating—net) and non-operating expenses (interest and income taxes), are centrally managed and are not included in the measurement of segment profitability reviewed by management. The following table presents summary operating results by business segment:

	Ammonia	Granular Urea(1)	UAN(1)	AN(1)	Other(1)	Consolida	ted
	(in million	s, except po	ercentages)				
Three months ended March 31, 2019							
Net sales	\$187	\$343	\$256	\$127	\$88	\$1,001	
Cost of sales	166	228	195	114	78	781	
Gross margin	\$21	\$115	\$61	\$13	\$10	\$220	
Gross margin percentage	11.2 %	33.5 %	23.8 %	10.2 %	11.4%	22.0	%
Three months ended March 31, 2018							
Net sales	\$212	\$264	\$283	\$100	\$98	\$957	
Cost of sales	188	189	230	74	86	767	
Gross margin	\$24	\$75	\$53	\$26	\$12	\$190	
Gross margin percentage	11.3 %	28.4 %	18.7 %	26.0 %	12.2%	19.9	%

⁽¹⁾ The cost of products that are upgraded into other products is transferred at cost into the upgraded product results.

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Ammonia Segment

Our ammonia segment produces anhydrous ammonia (ammonia), which is our most concentrated nitrogen fertilizer as it contains 82% nitrogen. The results of our ammonia segment consist of sales of ammonia to external customers. In addition, ammonia is the "basic" nitrogen product that we upgrade into other nitrogen products such as granular urea, UAN and AN. We produce ammonia at all of our nitrogen manufacturing complexes.

Three Months Ended March 31

The following table presents summary operating data for our ammonia segment:

	I nree Months Ended March 31,				
	2019	2018	2019 v. 20	18	
	(dollars in millions, except per ton amounts)				
Net sales	\$187	\$212	\$(25)	(12)%	
Cost of sales	166	188	(22)	(12)%	
Gross margin	\$21	\$24	\$(3)	(13)%	
Gross margin percentage	11.2 %	11.3 %	(0.1)%		
Sales volume by product tons (000s)	606	664	(58)	(9)%	
Sales volume by nutrient tons (000s) ⁽¹⁾	497	544	(47)	(9)%	
Average selling price per product ton	\$309	\$319	\$(10)	(3)%	
Average selling price per nutrient ton ⁽¹⁾	\$376	\$390	\$(14)	(4)%	
Gross margin per product ton	\$35	\$36	\$(1)	(3)%	
Gross margin per nutrient ton ⁽¹⁾	\$42	\$44	\$(2)	(5)%	
Depreciation and amortization	\$29	\$25	\$4	16 %	
Unrealized net mark-to-market gain on natural gas derivatives	\$	\$(1)	\$1	100 %	

⁽¹⁾ Ammonia represents 82% nitrogen content. Nutrient tons represent the equivalent tons of nitrogen within the product tons. First Quarter of 2019 Compared to First Quarter of 2018

Net Sales. Net sales in the ammonia segment decreased by \$25 million, or 12%, in the first quarter of 2019 from the first quarter of 2018 due primarily to a 9% decrease in sales volume and a 3% decrease in average selling prices. Sales volume in the first quarter was impacted by unfavorable weather including wet conditions and cold temperatures throughout much of North America, which delayed the spring application season. Average selling prices decreased to \$309 per ton in the first quarter of 2019 compared to \$319 in the comparable period of 2018 due primarily to the impact of lower global demand.

Cost of Sales. Cost of sales in our ammonia segment averaged \$274 per ton in the first quarter of 2019, a 3% decrease from \$283 per ton in the same quarter of 2018. The decrease is due primarily to a lower cost for purchased product from our joint venture in Trinidad in the first quarter of 2019 as compared to the first quarter of 2018, which reduces the overall cost per ton, partially offset by higher freight costs due to the mix of transportation modes.

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Granular Urea Segment

Our granular urea segment produces granular urea, which contains 46% nitrogen. Produced from ammonia and carbon dioxide, it has the highest nitrogen content of any of our solid nitrogen fertilizers. Granular urea is produced at our Donaldsonville, Louisiana; Medicine Hat, Alberta; and Port Neal, Iowa, nitrogen complexes.

The following table presents summary operating data for our granular urea segment:

	Three Months Ended March 31,				
	2019	2018	2019 v. 2	2018	
	(dollars in millions, except per tamounts)				
Net sales	\$343	\$264	\$79	30	%
Cost of sales	228	189	39	21	%
Gross margin	\$115	\$75	\$40	53	%
Gross margin percentage	33.5 %	28.4 %	5.1 %		
Sales volume by product tons (000s)	1,184	982	202	21	%
Sales volume by nutrient tons (000s) ⁽¹⁾	545	452	93	21	%
Average selling price per product ton	\$290	\$269	\$21	8	%
Average selling price per nutrient ton ⁽¹⁾	\$629	\$584	\$45	8	%
Gross margin per product ton	\$97	\$76	\$21	28	%
Gross margin per nutrient ton ⁽¹⁾	\$211	\$166	\$45	27	%
Depreciation and amortization	\$66	\$59	\$7	12	%
Unrealized net mark-to-market loss (gain) on natural gas derivatives	\$1	\$(1)	\$2	N/N	1

N/M-Not Meaningful

First Quarter of 2019 Compared to First Quarter of 2018

Net Sales. Net sales in the granular urea segment increased \$79 million, or 30%, in the first quarter of 2019 from the first quarter of 2018 due primarily to a 21% increase in sales volume and an 8% increase in average selling prices. Sales volume was higher due to greater supply availability as a result of increased production in the first quarter of 2019 compared to the comparable period of 2018. Average selling prices increased to \$290 per ton in the first quarter of 2019 compared to \$269 per ton in the comparable period of 2018 due primarily to the impact of a tighter global nitrogen supply and demand balance entering 2019.

Cost of Sales. Cost of sales in our granular urea segment averaged \$193 per ton in both the first quarter of 2019 and 2018, as higher realized natural gas costs were offset by lower utilities and maintenance costs.

⁽¹⁾ Granular urea represents 46% nitrogen content. Nutrient tons represent the tons of nitrogen within the product tons.

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UAN Segment

Our UAN segment produces urea ammonium nitrate solution (UAN). UAN, a liquid fertilizer product with a nitrogen content that typically ranges from 28% to 32%, is produced by combining urea and ammonium nitrate. UAN is produced at our nitrogen complexes in Courtright, Ontario; Donaldsonville, Louisiana; Port Neal, Iowa; Verdigris, Oklahoma; Woodward, Oklahoma; and Yazoo City, Mississippi.

The following table presents summary operating data for our UAN segment:

	Three Months Ended March 31,				
	2019	2018	2019 v. 20	18	
	(dollars in millions, except per ton amounts)				
Net sales	\$256	\$283	\$(27)	(10)%
Cost of sales	195	230	(35)	(15)%
Gross margin	\$61	\$53	\$8	15	%
Gross margin percentage	23.8 %	18.7 %	5.1 %		
Sales volume by product tons (000s)	1,268	1,669	(401)	(24)%
Sales volume by nutrient tons (000s) ⁽¹⁾	396	527	(131)	(25)%
Average selling price per product ton	\$202	\$170	\$32	19	%
Average selling price per nutrient ton ⁽¹⁾	\$646	\$537	\$109	20	%
Gross margin per product ton	\$48	\$32	\$16	50	%
Gross margin per nutrient ton ⁽¹⁾	\$154	\$101	\$53	52	%
Depreciation and amortization	\$46	\$63	\$(17)	(27)%
Unrealized net mark-to-market loss (gain) on natural gas derivatives	\$1	\$(1)	\$2	N/N	1

N/M—Not Meaningful

First Quarter of 2019 Compared to First Quarter of 2018

Net Sales. Net sales in the UAN segment decreased \$27 million, or 10%, in the first quarter of 2019 from the first quarter of 2018 due primarily to a 24% decrease in sales volume, partially offset by a 19% increase in average selling prices. The decline in sales volume was due primarily to customer reluctance to take delivery of UAN due to the delayed spring application season as unfavorable weather conditions negatively impacted the supply and demand balance. Average selling prices increased to \$202 per ton in the first quarter of 2019 compared to \$170 per ton in the comparable period of 2018 due primarily to the impact of a tighter global nitrogen supply and demand balance entering 2019.

Cost of Sales. Cost of sales in our UAN segment averaged \$154 per ton in the first quarter of 2019, a 12% increase from \$138 per ton in the comparable period of 2018 primarily driven by higher realized natural gas costs and higher freight costs due to the mix of transportation modes.

⁽¹⁾ UAN represents between 28% and 32% of nitrogen content, depending on the concentration specified by the customer. Nutrient tons represent the tons of nitrogen within the product tons.

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AN Segment

Our AN segment produces ammonium nitrate (AN). AN is a nitrogen-based product with a nitrogen content between 29% and 35%. AN is used as nitrogen fertilizer and is also used by industrial customers for commercial explosives and blasting systems. AN is produced at our nitrogen complexes in Yazoo City, Mississippi and Ince and Billingham, United Kingdom.

Three Months Ended March 31

The following table presents summary operating data for our AN segment:

	I nree Months Ended March 31,				
	2019	2018	2019 v. 2018	;	
	(dollars in millions, except per ton an				ınts)
Net sales	\$127	\$100	\$27	27	%
Cost of sales	114	74	40	54	%
Gross margin	\$13	\$26	\$(13)	(50)%
Gross margin percentage	10.2 %	26.0 %	(15.8)%		
Sales volume by product tons (000s)	501	417	84	20	%
Sales volume by nutrient tons (000s) ⁽¹⁾	166	140	26	19	%
Average selling price per product ton	\$253	\$240	\$13	5	%
Average selling price per nutrient ton ⁽¹⁾	\$765	\$714	\$51	7	%
Gross margin per product ton	\$26	\$62	\$(36)	(58)%
Gross margin per nutrient ton ⁽¹⁾	\$78	\$186	\$(108)	(58)%
Depreciation and amortization	\$22	\$18	\$4	22	%
Unrealized net mark-to-market (gain) loss on natural gas derivatives	\$ —	\$—	\$—		%

⁽¹⁾ Nutrient tons represent the tons of nitrogen within the product tons.

First Quarter of 2019 Compared to First Quarter of 2018

Net Sales. Net sales in our AN segment increased \$27 million, or 27%, in the first quarter of 2019 from the first quarter of 2018 due primarily to a 20% increase in sales volume and a 5% increase in average selling prices. Sales volume was higher due primarily to an earlier start of the spring application season in the United Kingdom in 2019 compared to the delayed start in 2018 due to unfavorable weather conditions. Average selling prices increased to \$253 per ton in the first quarter of 2019 compared to \$240 per ton in the comparable period of 2018 due primarily to the impact of a tighter global nitrogen supply and demand balance.

Cost of Sales. Cost of sales in our AN segment averaged \$227 per ton in the first quarter of 2019, a 28% increase from \$178 per ton in the comparable period of 2018. The increase was due primarily to higher costs related to plant maintenance activities. Additionally, the settlement of an energy rebate of \$5 million was recognized in the first quarter of 2018.

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Other Segment

Our Other segment primarily includes the following products:

Diesel exhaust fluid (DEF) is an aqueous urea solution typically made with 32.5% high-purity urea and 67.5% deionized water.

Urea liquor is a liquid product that we sell in concentrations of 40%, 50% and 70% urea as a chemical intermediate. Nitric acid is a nitrogen-based product with a nitrogen content of 22.2%.

Three Months Ended March 31

Compound fertilizer products (NPKs) are solid granular fertilizer products for which the nutrient content is a combination of nitrogen, phosphorus, and potassium.

The following table presents summary operating data for our Other segment:

	Three Months Ended March 31,			
	2019	2018	2019 v. 201	8
	(dollars in millions, except per ton amounts)			
Net sales	\$88	\$98	\$(10)	(10)%
Cost of sales	78	86	(8)	(9)%
Gross margin	\$10	\$12	\$(2)	(17)%
Gross margin percentage	11.4 %	12.2 %	(0.8)%	
Sales volume by product tons (000s)	528	571	(43)	(8)%
Sales volume by nutrient tons (000s) ⁽¹⁾	103	111	(8)	(7)%
Average selling price per product ton	\$167	\$172	\$(5)	(3)%
Average selling price per nutrient ton ⁽¹⁾	\$854	\$883	\$(29)	(3)%
Gross margin per product ton	\$19	\$21	\$(2)	(10)%
Gross margin per nutrient ton ⁽¹⁾	\$97	\$108	\$(11)	(10)%
Depreciation and amortization	\$17	\$17	\$ —	%
Unrealized net mark-to-market (gain) loss on natural gas derivatives	\$	\$ —	\$ —	— %

⁽¹⁾ Nutrient tons represent the tons of nitrogen within the product tons.

First Quarter of 2019 Compared to First Quarter of 2018

Net Sales. Net sales in our Other segment decreased by \$10 million, or 10%, in the first quarter of 2019 from the first quarter of 2018 due to an 8% decrease in sales volume and a 3% decrease in average selling prices. The decrease in sales volume was due primarily to a decrease in NPK production due to plant maintenance activity. The decrease in average selling prices is due primarily to the mix of products sold.

Cost of Sales. Cost of sales in our Other segment averaged \$148 per ton in the first quarter of 2019, a 2% decrease from \$151 per ton in the first quarter of 2018 due primarily to the mix of products sold.

CF INDUSTRIES HOLDINGS, INC.

Liquidity and Capital Resources

Our primary uses of cash are generally for operating costs, working capital, capital expenditures, debt service, investments, taxes, share repurchases and dividends. Our working capital requirements are affected by several factors, including demand for our products, selling prices, raw material costs, freight costs and seasonal factors inherent in the business. Generally, our primary source of cash is cash from operations, which includes cash generated by customer advances. We may also from time to time access the capital markets or engage in borrowings under our credit agreement.

During the first quarter of 2019, we repurchased approximately 1.5 million shares of our common stock for \$60 million. See discussion under "Share Repurchase Programs," below, for further information.

At March 31, 2019, we were in compliance with all applicable covenant requirements under our Revolving Credit Agreement, Public Senior Notes and Senior Secured Notes. There were no borrowings outstanding under the Revolving Credit Agreement as of March 31, 2019 or December 31, 2018, or during the three months ended March 31, 2019. See discussion under "Debt," below, for further information.

Our cash and cash equivalents balance was \$671 million and \$682 million as of March 31, 2019 and December 31, 2018, respectively.

Cash Equivalents

Cash equivalents include highly liquid investments that are readily convertible to known amounts of cash with original maturities of three months or less. Under our short-term investment policy, we may invest our cash balances, either directly or through mutual funds, in several types of investment-grade securities, including notes and bonds issued by governmental entities or corporations. Securities issued by governmental entities include those issued directly by the U.S. and Canadian federal governments; those issued by state, local or other governmental entities; and those guaranteed by entities affiliated with governmental entities.

Share Repurchase Programs

On August 1, 2018, the Board authorized the repurchase of up to \$500 million of CF Holdings common stock through June 30, 2020 (the 2018 Share Repurchase Program). In 2018, we completed the 2018 Share Repurchase Program with the repurchase of 10.9 million shares for \$500 million, of which \$33 million was accrued and unpaid at December 31, 2018. In February 2019, we retired all 10.9 million shares that were repurchased under the 2018 Share Repurchase Program.

On February 13, 2019, the Board authorized the repurchase of up to \$1 billion of CF Holdings common stock through December 31, 2021 (the 2019 Share Repurchase Program). Repurchases under the 2019 Share Repurchase Program may be made from time to time in the open market, through privately negotiated transactions, block transactions or otherwise. The manner, timing and amount of repurchases will be determined by our management based on the evaluation of market conditions, stock price, and other factors. In the first quarter of 2019, we repurchased approximately 1.5 million shares for \$60 million, of which \$6 million was accrued and unpaid at March 31, 2019. At March 31, 2019, we held 1,546,005 shares of treasury stock.

Capital Spending

We make capital expenditures to sustain our asset base, increase our capacity, improve plant efficiency and comply with various environmental, health and safety requirements. Capital expenditures totaled \$80 million in the first three months of 2019 compared to \$68 million in the first three months of 2018.

Capital expenditures in 2019 are estimated to be in the range of \$400 to \$450 million. Planned capital expenditures are subject to change due to delays in regulatory approvals or permitting, unanticipated increases in cost, changes in scope and completion time, performance of third parties, delay in the receipt of equipment, adverse weather, defects in materials and workmanship, labor or material shortages, transportation constraints, acceleration or delays in the timing of the work and other unforeseen difficulties.

CF INDUSTRIES HOLDINGS, INC.

Debt

Revolving Credit Agreement

We have a senior secured revolving credit agreement (the Revolving Credit Agreement) providing for a revolving credit facility of up to \$750 million with a maturity of September 18, 2020. The Revolving Credit Agreement includes a letter of credit sub-limit of \$125 million. Borrowings under the Revolving Credit Agreement may be used for working capital and general corporate purposes. CF Industries is the borrower under the Revolving Credit Agreement and may also designate as borrowers one or more wholly owned subsidiaries that are organized in the United States or any state thereof, or the District of Columbia.

Borrowings under the Revolving Credit Agreement may be denominated in U.S. dollars, Canadian dollars, euro and British pounds, and bear interest at a per annum rate equal to an applicable eurocurrency rate or base rate plus, in either case, a specified margin, and the borrowers are required to pay an undrawn commitment fee on the undrawn portion of the commitments under the Revolving Credit Agreement and customary letter of credit fees. The specified margin and the amount of the commitment fee depend on CF Holdings' credit rating at the time.

The guarantors under the Revolving Credit Agreement are currently comprised of CF Holdings and CF Holdings' wholly owned subsidiaries CF Industries Enterprises, LLC (CFE), CF Industries Sales, LLC (CFS), CF USA Holdings, LLC (CF USA) and CF Industries Distribution Facilities, LLC (CFIDF).

As of March 31, 2019, we had excess borrowing capacity under the Revolving Credit Agreement of \$750 million and no outstanding letters of credit. In addition, there were no borrowings outstanding under the Revolving Credit Agreement as of March 31, 2019 or December 31, 2018, or during the three months ended March 31, 2019. The Revolving Credit Agreement contains representations and warranties and affirmative and negative covenants, including financial covenants. As of March 31, 2019, we were in compliance with all covenants under the Revolving Credit Agreement.

Letters of Credit

In addition to the letter of credit capacity under the Revolving Credit Agreement, as described above, we have also entered into a bilateral agreement with capacity to issue letters of credit up to \$145 million (reflecting an increase of \$20 million in January 2019). As of March 31, 2019, approximately \$127 million of letters of credit were outstanding under this agreement.

Senior Notes

Long-term debt presented on our consolidated balance sheets as of March 31, 2019 and December 31, 2018 consisted of the following Public Senior Notes (unsecured) and Senior Secured Notes issued by CF Industries:

March 31 2010

December 31 2018

		March 31, 2019		December	31, 2010
	Effective Interest Rate		Carrying		Carrying
	Effective Interest Rate	Principal	Amount (1)	Principal	Amount (1)
		(in million	ıs)		
Public Senior Notes:					
7.125% due May 2020	7.529%	\$500	\$498	\$500	\$497
3.450% due June 2023	3.562%	750	747	750	747
5.150% due March 2034	5.279%	750	740	750	740
4.950% due June 2043	5.031%	750	742	750	741
5.375% due March 2044	5.465%	750	741	750	741
Senior Secured Notes:					
3.400% due December 2021	3.782%	500	495	500	495
4.500% due December 2026	4.759%	750	737	750	737
Total long-term debt		\$4,750	\$4,700	\$4,750	\$4,698

(1)

Carrying amount is net of unamortized debt discount and deferred debt issuance costs. Total unamortized debt discount was \$10 million and \$11 million as of March 31, 2019 and December 31, 2018, respectively, and total deferred debt issuance costs were \$40 million and \$41 million as of March 31, 2019 and December 31, 2018, respectively.

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Public Senior Notes

Under the indentures (including the applicable supplemental indentures) governing our senior notes due 2020, 2023, 2034, 2043 and 2044 identified in the table above (the Public Senior Notes), each series of Public Senior Notes is guaranteed by CF Holdings and CF Holdings' wholly owned subsidiaries CFE, CFS, CF USA and CFIDF. CFE, CFS, CF USA and CFIDF became subsidiary guarantors of the Public Senior Notes as a result of their becoming guarantors under the Revolving Credit Agreement. Interest on the Public Senior Notes is payable semiannually, and the Public Senior Notes are redeemable at our option, in whole at any time or in part from time to time, at specified make-whole redemption prices.

Senior Secured Notes

On November 21, 2016, CF Industries issued \$500 million aggregate principal amount of 3.400% senior secured notes due 2021 (the 2021 Notes) and \$750 million aggregate principal amount of 4.500% senior secured notes due 2026 (the 2026 Notes, and together with the 2021 Notes, the Senior Secured Notes). CF Holdings and the subsidiary guarantors of the Public Senior Notes are also guarantors of the Senior Secured Notes. Interest on the Senior Secured Notes is payable semiannually on December 1 and June 1, and the Senior Secured Notes are redeemable at our option, in whole at any time or in part from time to time, at specified make-whole redemption prices.

Forward Sales and Customer Advances

We offer our customers the opportunity to purchase products from us on a forward basis at prices and on delivery dates we propose. Therefore, our reported fertilizer selling prices and margins may differ from market spot prices and margins available at the time of shipment.

Customer advances, which typically represent a portion of the contract's value, are received shortly after the contract is executed, with any remaining unpaid amount generally being collected by the time control transfers to the customer, thereby reducing or eliminating the accounts receivable related to such sales. Any cash payments received in advance from customers in connection with forward sales contracts are reflected on our consolidated balance sheets as a current liability until control transfers and revenue is recognized. As of March 31, 2019 and December 31, 2018, we had \$301 million and \$149 million, respectively, in customer advances on our consolidated balance sheets. While customer advances are generally a significant source of liquidity, the level of forward sales contracts is affected by many factors including current market conditions and our customers' outlook of future market fundamentals. During periods of declining prices, customers tend to delay purchasing fertilizer in anticipation that prices in the future will be lower than the current prices. If the level of sales under our forward sales programs were to decrease in the future, our cash received from customer advances would likely decrease and our accounts receivable balances would likely increase. Additionally, borrowing under the Revolving Credit Agreement could become necessary. Due to the volatility inherent in our business and changing customer expectations, we cannot estimate the amount of future forward sales activity.

Under our forward sales programs, a customer may delay delivery of an order due to weather conditions or other factors. These delays generally subject the customer to potential charges for storage or may be grounds for termination of the contract by us. Such a delay in scheduled shipment or termination of a forward sales contract due to a customer's inability or unwillingness to perform may negatively impact our reported sales.

Derivative Financial Instruments

We may use derivative financial instruments to reduce our exposure to changes in prices for natural gas that will be purchased in the future. Natural gas is the largest and most volatile component of our manufacturing cost for nitrogen-based fertilizers. From time to time, we also use derivative financial instruments to reduce our exposure to changes in foreign currency exchange rates. Volatility in reported quarterly earnings can result from the unrealized mark-to-market adjustments in the value of the derivatives. As of March 31, 2019 and December 31, 2018, our open derivative contracts consisted of natural gas basis swaps for 2.3 million MMBtus and 6.6 million MMBtus, respectively.

Defined Benefit Pension Plans

We contributed \$6 million to our pension plans during the three months ended March 31, 2019. Over the remainder of 2019, we expect to contribute an additional \$56 million to our pension plans, or a total of approximately \$62 million for the full year 2019.

CF INDUSTRIES HOLDINGS, INC.

Distribution on Noncontrolling Interest in CFN

In the first quarter of 2019, the CFN Board of Managers approved semi-annual distribution payments for the distribution period ended December 31, 2018 in accordance with CFN's limited liability company agreement. On January 31, 2019, CFN distributed \$86 million to CHS for the distribution period ended December 31, 2018. The estimate of the partnership distribution earned by CHS, but not yet declared, for the first quarter of 2019 is approximately \$47 million.

Cash Flows

Operating Activities

Net cash provided by operating activities during the first three months of 2019 was \$306 million as compared to \$282 million in the first three months of 2018. The increase of \$24 million was due primarily to a \$30 million increase in net earnings during the first three months of 2019 partially offset by higher working capital used in the business. The increase in working capital was primarily in the accounts receivable, inventory and accounts payable areas of the business. This working capital usage was partially offset by working capital generated by an increase in customer advances as customers entered into a greater amount of fertilizer contracts with future delivery dates in the first three months of 2019 as compared to the first three months of 2018.

Investing Activities

Net cash used in investing activities was \$75 million in the first three months of 2019 as compared to \$55 million in the first three months of 2018. During the first three months of 2019, capital expenditures totaled \$80 million compared to \$68 million in the first three months of 2018.

Financing Activities

Net cash used in financing activities was \$242 million in the first three months of 2019 compared to \$127 million in the same period of 2018. Dividends paid on common stock during the three months ended March 31, 2019 and 2018 were \$67 million and \$70 million, respectively. In the first three months of 2019, we spent \$87 million to repurchase shares of our common stock, which included approximately \$33 million related to shares repurchased in late 2018 that were paid for in 2019. In the first three months of 2019, we repurchased approximately 1.5 million shares for approximately \$60 million, of which \$6 million was accrued and not yet settled at March 31, 2019. Distributions to noncontrolling interests totaled \$86 million in the first quarter of 2019 as compared to \$59 million in the first quarter of 2018.

Sale of Pine Bend Facility

In March of 2019, we entered into an agreement to sell our Pine Bend dry bulk storage and logistics facility located in Minnesota. In April of 2019, we completed the sale and received proceeds of \$55 million.

Contractual Obligations

As of March 31, 2019, there have been no material changes outside the ordinary course of business to our contractual obligations as described in our 2018 Annual Report on Form 10-K filed with the SEC on February 22, 2019.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements that have or are reasonably likely to have a material current or future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources. See "Recent Accounting Pronouncements," below for a discussion of our recent adoption of Accounting Standards Update (ASU) No. 2016-02, Leases (Topic 842).

Critical Accounting Policies and Estimates

There were no changes to our significant accounting policies or estimates during the first three months of 2019.

Recent Accounting Pronouncements

See Note 2—New Accounting Standards for a discussion of recent accounting pronouncements, including our January 1, 2019 adoption of ASU No. 2016-02, Leases (Topic 842), which requires lessees to recognize the rights and obligations resulting from virtually all leases (other than leases that meet the definition of a short-term lease) on their balance sheets as right-of-use assets with corresponding lease liabilities.

CF INDUSTRIES HOLDINGS, INC.

FORWARD-LOOKING STATEMENTS

From time to time, in this Quarterly Report on Form 10-Q as well as in other written reports and oral statements, we make forward-looking statements that are not statements of historical fact and may involve a number of risks and uncertainties. These statements relate to analyses and other information that are based on forecasts of future results and estimates of amounts not yet determinable. These statements may also relate to our prospects, future developments and business strategies. We have used the words "anticipate," "believe," "could," "estimate," "expect," "intend," "may," "plan," "predict," "project," "will," or "would" and similar terms and phrases, including references to assumptions, to identify forward-looking statements in this document. These forward-looking statements are made based on currently available competitive, financial and economic data, our current expectations, estimates, forecasts and projections about the industries and markets in which we operate and management's beliefs and assumptions concerning future events affecting us. These statements are not guarantees of future performance and are subject to risks, uncertainties and factors relating to our operations and business environment, all of which are difficult to predict and many of which are beyond our control. Therefore, our actual results may differ materially from what is expressed in or implied by any forward-looking statements. We want to caution you not to place undue reliance on any forward-looking statements. We do not undertake any responsibility to release publicly any revisions to these forward-looking statements to take into account events or circumstances that occur after the date of this document. Additionally, we do not undertake any responsibility to provide updates regarding the occurrence of any unanticipated events which may cause actual results to differ from those expressed or implied by the forward-looking statements contained in this document.

Important factors that could cause actual results to differ materially from our expectations are disclosed under "Risk Factors" in Item 1A in ou<u>r 2018 Annual Report on Form 10-K</u> filed with the SEC on February 22, 2019. Such factors include, among others:

the cyclical nature of our business and the impact of global supply and demand on our selling prices;

the global commodity nature of our fertilizer products, the conditions in the international market for nitrogen products, and the intense global competition from other fertilizer producers;

conditions in the U.S. and European agricultural industry;

the volatility of natural gas prices in North America and Europe;

difficulties in securing the supply and delivery of raw materials, increases in their costs or delays or interruptions in their delivery;

reliance on third party providers of transportation services and equipment;

the significant risks and hazards involved in producing and handling our products against which we may not be fully insured;

our ability to manage our indebtedness;

operating and financial restrictions imposed on us by the agreements governing our senior secured indebtedness;

risks associated with our incurrence of additional indebtedness;

our ability to maintain compliance with covenants under the agreements governing our indebtedness;

downgrades of our credit ratings;

risks associated with cyber security;

weather conditions;

•risks associated with changes in tax laws and disagreements with taxing authorities;

our reliance on a limited number of key facilities;

potential liabilities and expenditures related to environmental, health and safety laws and regulations and permitting requirements;

future regulatory restrictions and requirements related to greenhouse gas emissions;

risks associated with expansions of our business, including unanticipated adverse consequences and the significant resources that could be required;

the seasonality of the fertilizer business;

the impact of changing market conditions on our forward sales programs;

•risks involving derivatives and the effectiveness of our risk measurement and hedging activities;

risks associated with the operation or management of the CHS strategic venture, risks and uncertainties

relating to the market prices of the fertilizer products that are the subject of our supply agreement with CHS over the life of the supply agreement, and the risk that any challenges related to the CHS strategic venture will harm our other business relationships;

risks associated with our PLNL joint venture;

acts of terrorism and regulations to combat terrorism;

risks associated with international operations; and

deterioration of global market and economic conditions.

CF INDUSTRIES HOLDINGS, INC.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

There were no significant changes to our quantitative and qualitative disclosures about market risk during the three months ended March 31, 2019. Please refer to Part II, Item 7A. Quantitative and Qualitative Disclosures about Market Risk included in our 2018 Annual Report on Form 10-K filed with the SEC on February 22, 2019 for a more complete discussion of the market risks we encounter.

ITEM 4. CONTROLS AND PROCEDURES.

- (a) Disclosure Controls and Procedures. The Company's management, with the participation of the Company's principal executive officer and principal financial officer, has evaluated the effectiveness of the Company's disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the Exchange Act)) as of the end of the period covered by this report. Based on such evaluation, the Company's principal executive officer and principal financial officer have concluded that, as of the end of such period, the Company's disclosure controls and procedures are effective in (i) ensuring that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and (ii) ensuring that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the Company's management, including the Company's principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.
- (b) Changes in Internal Control Over Financial Reporting. Except as set forth below, there have not been any changes in the Company's internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during the quarter ended March 31, 2019 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

 During the quarter ended March 31, 2019, we implemented a new lease accounting system and process as a result of our January 1, 2019 adoption of ASU No. 2016-02, Leases (Topic 842). Although the adoption of the new lease accounting standard did not have a material impact on our consolidated statement of operations or consolidated statement of cash flows for the three months ended March 31, 2019, we did implement changes to our internal processes and controls to reflect the impact of ASU No. 2016-02 (Topic 842), including calculating the right-of-use assets and lease liabilities recorded on our March 31, 2019 consolidated balance sheet.

PART II—OTHER INFORMATION ITEM 1. LEGAL PROCEEDINGS.

West Fertilizer Co.

On April 17, 2013, there was a fire and explosion at the West Fertilizer Co. fertilizer storage and distribution facility in West, Texas. According to published reports, 15 people were killed and approximately 200 people were injured in the incident, and the fire and explosion damaged or destroyed a number of homes and buildings around the facility. Various subsidiaries of CF Industries Holdings, Inc. (the CF Entities) were named as defendants along with other companies in lawsuits filed in 2013, 2014 and 2015 in the District Court of McLennan County, Texas by the City of West, individual residents of the County and other parties seeking recovery for damages allegedly sustained as a result of the explosion. The cases were consolidated for discovery and pretrial proceedings in the District Court of McLennan County under the caption "In re: West Explosion Cases." The two-year statute of limitations expired on April 17, 2015. As of that date, over 400 plaintiffs had filed claims, including at least 9 entities, 325 individuals, and 80 insurance companies. Plaintiffs allege various theories of negligence, strict liability, and breach of warranty under Texas law. Although we do not own or operate the facility or directly sell our products to West Fertilizer Co., products that the CF Entities manufactured and sold to others were delivered to the facility and may have been stored at the West facility at the time of the incident.

The Court granted in part and denied in part the CF Entities' Motions for Summary Judgment in August 2015. Over two hundred cases have been resolved pursuant to confidential settlements that have been or we expect will be fully funded by insurance. The remaining cases are in various stages of discovery and pre-trial proceedings. The next group

of cases was reset for trial beginning on July 23, 2019. We believe we have strong legal and factual defenses and intend to continue defending the CF Entities vigorously in the pending lawsuits. The Company cannot provide a range of reasonably possible loss due to the lack of damages discovery for many of the remaining claims and the uncertain nature of this litigation, including uncertainties around the potential allocation of responsibility by a jury to other defendants or responsible third parties. The recognition of a potential loss in the future in the West Fertilizer Co. litigation could negatively affect our results in the period of recognition.

CF INDUSTRIES HOLDINGS, INC.

However, based upon currently available information, including available insurance coverage, we do not believe that this litigation will have a material adverse effect on our consolidated financial position, results of operations or cash flows.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.

The following table sets forth stock repurchases, on a trade date basis, for each of the three months of the quarter ended March 31, 2019.

<u>Period</u>	Total number of shares (or units) purchased	Average price paid per share (or unit)(1)	Total number of shares (or units) purchased as	Maximum number (or approximate dollar value) of shares (or units) that may yet be purchased under the plans or programs (in thousands)
January 1, 2019 - January 31, 2019 February 1, 2019 - February 28, 2019 March 1, 2019 - March 31, 2019 Total	44,043 315 1,501,647 ⁽³⁾ 1,546,005		_	\$ — 1,000,000 940,001

⁽¹⁾ Average price paid per share of CF Industries Holdings, Inc. (CF Holdings) common stock repurchased under the 2019 Stock Repurchase Program, as defined below, is the execution price, excluding commissions paid to brokers.

ITEM 6. EXHIBITS.

A list of exhibits filed with this Report on Form 10-Q (or incorporated by reference to exhibits previously filed or furnished) is

provided in the Exhibit

On February 13, 2019, our Board of Directors authorized management to repurchase CF Holdings common stock for a total expenditure of up to \$1 billion through December 31, 2021 (the 2019 Stock Repurchase Program). This program is discussed in Note 15—Stockholders' Equity, in the notes to the unaudited consolidated financial statements included in Part I.

⁽³⁾ Includes 45,861 shares withheld to pay employee tax obligations upon the lapse of restrictions on restricted stock units and performance restricted stock units.

Index on page <u>50</u> of this report.

CF INDUSTRIES HOLDINGS, INC.

EXHIBIT INDEX

Exhibit Description

- Third Supplement to Second Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF
- 4.1 Industries Holdings, Inc. and the other guarantors named therein and Wells Fargo Bank, National Association, as trustee, relating to CF Industries, Inc.'s 7.125% Senior Notes due 2020
 - Third Supplement to First Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF
- 4.2 Industries Holdings, Inc. and the other guarantors named therein and Wells Fargo Bank, National Association, as trustee, relating to CF Industries, Inc.'s 3.450% Senior Notes due 2023
 - Third Supplement to Second Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF
- 4.3 Industries Holdings, Inc. and the other guarantors named therein and Wells Fargo Bank, National Association, as trustee, relating to CF Industries, Inc.'s 4.950% Senior Notes due 2043
 - Third Supplement to Third Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF
- 4.4 Industries Holdings, Inc. and the other guarantors named therein and Wells Fargo Bank, National Association, as trustee, relating to CF Industries, Inc.'s 5.150% Senior Notes due 2034
 - Third Supplement to Fourth Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF
- 4.5 Industries Holdings, Inc. and the other guarantors named therein and Wells Fargo Bank, National Association, as trustee, relating to CF Industries, Inc.'s 5.375% Senior Notes due 2044

 Second Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF Industries
- 4.6 <u>Distribution Facilities, LLC and Wells Fargo Bank, National Association, as trustee and as collateral agent, relating to CF Industries, Inc.'s 3.400% Senior Secured Notes due 202</u>1
 - Second Supplemental Indenture, dated as of March 22, 2019, among CF Industries, Inc., CF Industries
- 4.7 <u>Distribution Facilities, LLC and Wells Fargo Bank, National Association, as trustee and as collateral agent,</u> relating to CF Industries, Inc.'s 4.500% Senior Secured Notes due 2026
- 31.1 Certification of Principal Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Certification of Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 22.1 Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 22.2 Certification of Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
 - The following financial information from CF Industries Holdings, Inc.'s Quarterly Report on Form 10-Q for the quarter ended March 31, 2019, formatted in XBRL (eXtensible Business Reporting Language): (1) Consolidated
- 101 Statements of Operations, (2) Consolidated Statements of Comprehensive Income, (3) Consolidated Balance Sheets, (4) Consolidated Statements of Equity, (5) Consolidated Statements of Cash Flows, and (6) the Notes to Unaudited Consolidated Financial Statements

CF INDUSTRIES HOLDINGS, INC.

SIGNATURES

Pursuant to the requirements 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.

CF INDUSTRIES HOLDINGS, INC.

Date: May 2, 2019 By:/s/W. ANTHONY WILL

W. Anthony Will

President and Chief Executive Officer

(Principal Executive Officer)

Date: May 2, 2019 By:/s/ DENNIS P. KELLEHER

Dennis P. Kelleher

Senior Vice President and Chief Financial Officer (Principal Financial Officer)