# Sustainability Disclosure & GRI Index 2019

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# **GRI Content Index 2019**

### **General Standard Disclosures**

STANDARD TITLE	GENERAL DISCLOSURE	PAGE (OR LINK)	EXTERNAL ASSURANCE	DISCLOSURE
GRI 101: FOUNDATION 2016				
Organization	al Profile			
GRI 102:	102-1	The Mosaic Company	-	Name of the organization
General Disclosures	102-2	PDF pg. 15	-	Primary brands, products, and services
2016	102-3	Tampa, Florida	-	Location of the organization's headquarters
	102-4	2019 10-K pg. F-45 and PDF pg. 16	-	Number of countries where the organization operates, and names of countries where either the organization has significant operations or that are specifically relevant to the sustainability topics covered in the report
	102-5	2019 10-K pg. 1	-	Nature of ownership and legal form
	102-6	2019 10-K pgs. 1-2, 40	-	Markets served
	102-7	<mark>2019 10-K</mark> pgs. 25, F-5, F-9 – F-12	-	Scale of the organization
		For a list of our locations (65 as of the date of this report), please see our website.		
	102-8	PDF pg. 16	-	Number of employees
	102-9	2019 10-K pgs. 22-24, Mine-to-Market Value and PDF pg. 17	-	Description of the organization's supply chain
	102-10	PDF pg. 18	-	Significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply chain
	102-11	Mosaic addresses the precautionary principle through the organization's management of risk. Please see our <b>Proxy Statement</b> , pg. 10 for more information.	-	How the precautionary approach or principle is addressed by the organization
		In 2013, Mosaic submitted our first United Nations Global Compact (UNGC) Communication on Progress, affirming our commitment to operate according to the UNGC's 10 universal principles, including Principle Seven, which states, "Businesses should support a precautionary approach to environmental challenges."		
	102-12	PDF pg. 19	-	Externally developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes or which it endorses
	102-13	PDF pgs. 19-20	-	Memberships of associations (such as industry associations) and national or international advocacy organizations

STANDARD TITLE	GENERAL DISCLOSURE	PAGE (OR LINK)	EXTERNAL ASSURANCE	DISCLOSURE
Strategy				
GRI 102:	102-14	CEO Message	-	CEO Message
General Disclosures 2016	102-15	Factors affecting our market, including impacts and risks, are summarized within Mosaic's 2019 10-K, pg. 27-44.	-	Key impacts, risks, and opportunities
		Key opportunities are discussed in our 2019 CDP Climate Change Response, pg. 15, and 2019 10-K.		

### **Ethics and Integrity**

GRI 102: General Disclosures	102-16	PDF pg. 21	-	Organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics
2016	102-17	PDF pg. 21	-	Mechanisms for advice and concerns about ethics

#### Governance

GRI 102: General Disclosures 2016	102-18	Proxy Statement, pg. 10	-	Governance structure of the organization
	102-20	Environmental, Health, Safety and Sustainable Development Committee Charter, pg. 2 and PDF pg. 22		Whether the organization has an executive-level position with responsibility for economic, environmental and social topics, and whether post holder report directly to the highest governance body
	102-21	Communications with the Board of Directors Policy	-	Process for consultation between stakeholders and the Board of Directors
	102-22	Proxy Statement, pgs. 20-24	-	Composition of Board of Directors and its committees
	102-23	Gregory L. Ebel is the chair of our Board of Directors. He is an independent director and not an executive officer of the company. This information is accurate as of December 31, 2018.		Chair of highest governance body
		Proxy Statement, pg. 24		
	102-24	Proxy Statement, pg. 17	-	Nomination and selection processes for the Board of Directors and its committees
	102-25	Proxy Statement, 18, 25-26	-	Processes for the Board of Directors to avoid conflicts of interest
	102-28	Proxy Statement, pg. 24	-	Processes for evaluating the Board's performance
	102-29	Proxy Statement, pg. 20	-	The Board's role in identification and management of impacts, risks and opportunities
	102-31	2019 CDP Climate Change Response, pg. 5	-	Frequency of the Board's review of economic, environmental and social impacts, risks, and opportunities
	102-33	Communications with the Board of Directors Policy	-	Process for communicating critical concerns to the Board of Directors.
	102-35	Proxy Statement, pg. 27-28	-	Compensation policies for the Board and Senior Leadership Team
	102-37	Communications with the Board of Directors Policy	-	Process for considering stakeholder views on compensation policies

STANDARD TITLE	GENERAL DISCLOSURE	PAGE (OR LINK)	EXTERNAL ASSURANCE	DISCLOSURE	SASB DISCLOSURE
Stakeholder	<sup>-</sup> Engageme	nt			
GRI 102: General	102-40	PDF pg. 23	-	List of stakeholder groups engaged by the organization	
Disclosures 2016	102-41	PDF pg. 24	-	Percentage of total employees covered by collective bargaining agreements	EM-MM 310a.1
	102-42	PDF pg. 23	-	Basis for identification and selection of stakeholders with whom to engage	
	102-43	PDF pg. 23	-	Organization's approach to stakeholder engagement	
	102-44	PDF pg. 23	-	Key topics and concerns that have been raised through stakeholder engagement	

### **Reporting Practice**

GRI 102: General Disclosures	102-45	documentsPDF pg. 24-The process for defining the report conter the Aspect BoundariesPDF pg. 24Material Aspects identified in the process defining report contentPDF pg. 27-Restatements of informationPDF pg. 27-Significant changes from previous report periods in the Scope and Aspect BoundarJanuary 1, 2019 – December 31, 2019-Reporting periodJune 2019-Date of most recent previous reportAnnual-Reporting cycleBenjamin Pratt, Senior Vice President, Corporate Public Affairs-Contact point for questions regarding the 	consolidated financial statements or equivalent
2016	102-46	PDF pg. 24	- The process for defining the report content and the Aspect Boundaries
	102-47	PDF pg. 27consolidated financial state documents12-46PDF pg. 24-The process for defining the the Aspect Boundaries12-46PDF pg. 24Material Aspects identified defining report content12-47PDF pg. 24Material Aspects identified defining report content12-48PDF pg. 27-12-49PDF pg. 27-12-49PDF pg. 27-12-50January 1, 2019 – December 31, 2019-12-51June 2019-12-52Annual-12-53Benjamin Pratt, Senior Vice President, Corporate Public Affairs-12-54This report has been prepared in accordance with the GRI Standards: core option. PDF pg. 27-12-56External assurance, where available, is noted in this Content Index	Material Aspects identified in the process for defining report content
	102-48	PDF pg. 27	- Restatements of information
	102-49	PDF pg. 27	- Significant changes from previous reporting periods in the Scope and Aspect Boundaries
	102-50		- Reporting period
	102-51	June 2019	- Date of most recent previous report
	102-52	Annual	- Reporting cycle
	102-53	President, Corporate Public	<ul> <li>Contact point for questions regarding the report or its contents</li> </ul>
	102-54	prepared in accordance with the GRI Standards:	- Claims of reporting in accordance with the GRI standards
		PDF pg. 27	
	102-56	available, is noted in this	- External assurance policy
		PDF pg. 27	

### **Material Topic Reporting**

GRI 103: Management	103-1	PDF pgs. 24-26 The remainder of	-	Explanation of material topic and its boundary
Approach 2016		management approach (MA) for each material topic is included within the respective topic section.		

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE
Category: E	conomic						
MATERIAL TOPIC:	ECONOMIC PE	RFORMANCE					
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 28		-	Management approach and its components		
	103-3	PDF pg. 28		-	Evaluation of management approach		
GRI 201: Economic	201-1	PDF pgs. 29-30		-	Direct economic value generated and distributed		EM0302-22
Performance 2016	201-2	PDF pg. 31		-	Financial implications and other risks and opportunities for the organization's activities due to climate change		
	201-3	2019 10-K pg. F-74 and PDF pgs. 31-32		-	Coverage of the organization's defined benefit plan obligations		
	201-4	PDF pg. 32		-	Financial assistance received from government		

MATERIAL TOPIC: I	MARKET PRE	SENCE	
GRI 103: Management	103-1	PDF pgs 24-26	Explanation of material topic and its boundary
Approach 2016	103-2	PDF pg. 33 -	Management approach and its components
	103-3	PDF pg. 33 -	Evaluation of management approach
GRI 202: Market Presence	202-1	PDF pg. 34 -	Ratios of standard entry level wage by gender compared to local minimum wage at significant locations of operation
2016	202-2	PDF pg. 34 -	Proportion of senior management hired from the local community at significant locations of operation

MATERIAL TOPIC: I	MATERIAL TOPIC: INDIRECT ECONOMIC IMPACTS					
GRI 103: Management	103-1	PDF pgs 24-26	Explanation of material topic and its boundary			
Approach 2016	103-2	PDF pg. 33 -	Management approach and its components			
	103-3	PDF pg. 33 -	Evaluation of management approach			
GRI 203: Indirect	203-1	PDF pg. 35 -	Development and impact of infrastructure investments and services supported			
Economic Impacts 2016	203-2	PDF pgs. 36-37	Significant indirect economic impacts, including the extent of impacts			

MATERIAL TOPIC: PROCUREMENT PRACTICES					
GRI 103: Management	103-1	PDF pgs. 24-26	-	Explanation of material topic and its boundary	
Approach 2016	103-2	PDF pg. 33	-	Management approach and its components	
	103-3	PDF pg. 33	-	Evaluation of management approach	
GRI 204: Procurement Practices 2016	204-1	PDF pg. 37	-	Proportion of spending on local suppliers at significant locations of operation	

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE		
Category: E	Category: Economic (continued)								
MATERIAL TOPIC:	ANTI-CORRUP	TION							
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary				
Approach 2016	103-2	PDF pg. 38		-	Management approach and its components		EM-MM-510a.		
	103-3	PDF pg. 38		-	Evaluation of management approach				
GRI 205: Anti- Corruption	205-1	PDF pg. 38		-	Total number and percentage of operations assessed for risks related to corruption and the significant risks identified	10	EM-MM-510a.		
2016	205-2	PDF pg. 39		-	Communication and training on anti- corruption policies and procedures	10			
	205-3	PDF pg. 39		-	Confirmed incidents of corruption and actions taken	10			
MATERIAL TOPIC:	MATERIAL TOPIC: ANTI-COMPETITIVE BEHAVIOR								
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary				
Approach 2016	103-2	PDF pg. 38		-	Management approach and its components				

 2016
 100 2
 PDF pg. 30
 Management approach and to so components

 103-3
 PDF pg. 38
 Evaluation of management approach

 GRI 206: Anti-Competitive Behavior 2016
 206-1
 PDF pg. 39
 Total number of legal actions for anticompetitive behavior, anti-trust, and monopoly practices and their outcomes

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE
Category: E	nvironme	ntal					
MATERIAL TOPIC:	MATERIALS						
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 40		-	Management approach and its components		
	103-3	PDF pg. 40		-	Evaluation of management approach		
GRI 301:	301-1	PDF pg. 40		-	Materials used by weight or volume		
Materials 2016	301-2	PDF pg. 40		-	Percentage of materials used that are recycled input materials	7	
	301-3	<b>PDF</b> pg. 40		-	Percentage of products sold and their packaging materials that are reclaimed by category		

MATERIAL TOPIC:	ENERGY						
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 41		-	Management approach and its components		
	103-3	PDF pg. 41		-	Evaluation of management approach		
GRI 302: Energy 2016	302-1	PDF pgs. 46-48		+/Assurance Statement	Energy consumption within the organization		RT-CH 130a.1; EM-MM-130a.1
2010	302-2		Energy consumed outside the organization is currently unavailable. We report GHG emissions associated with various sources in EN17 and continue to collaborate with vendors and contractors to quantify the amount of energy consumed outside the organization.	-	Energy consumption outside of the organization		
	302-3	PDF pg. 48		-	Energy intensity		
	302-4	PDF pg. 48		-	Reduction of energy consumption	7	
	302-5			-	Reductions in energy requirements of products and services	7, 8, 9	

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE
Category: E	nvironme	ntal (contir	ued)				
MATERIAL TOPIC:	WATER						
GRI 103: Management Approach 2016	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
	103-2	PDF pg. 41		-	Management approach and its components		
	103-3	PDF pg. 41		-	Evaluation of management approach		
GRI 303: Water 2016	303-1	PDF pg. 44		+/Assurance Statement	Total water withdrawal by source		RT-CH-140a.1; EM-MM-140a.1
2010	303-2	PDF pg. 45		-	Water sources significantly affected by withdrawal of water	7	
	303-3	PDF pg. 45		-	Total volume of water recycled and reused		
MATERIAL TOPIC:	BIODIVERSITY						
GRI 103: Management	103-1	PDF pgs.		-	Explanation of material topic and its		

GRI 103: Management	103-1	PDF pgs. 24-26	<ul> <li>Explanation of material topic and its boundary</li> </ul>		
Approach 2016	103-2	PDF pg. 41	- Management approach and its components		
	103-3	PDF pg. 41	- Evaluation of management approac	h	
GRI 304: Biodiversity 2016	304-1	PDF pg. 51	<ul> <li>Operational sites owned, leased, m in, or adjacent to, protected areas a areas of high biodiversity value outs protected areas</li> </ul>	nd	EM-MM-160a.1; EM-MM-160a.3
	304-2	PDF pg. 52	<ul> <li>Description of significant impacts of activities, products, and services or biodiversity in protected areas and of high biodiversity value outside pr areas</li> </ul>	areas	EM-MM-160a.1
	MM1	PDF pg. 53	- Land disturbed or rehabilitated	7	
	MM2	PDF pg. 53	<ul> <li>Number and percentage of sites ide as requiring biodiversity management plans</li> </ul>		
	304-3	PDF pg. 54	- Habitats protected or restored	7, 8	
	304-4	PDF pg. 55	- Total number of IUCN Red List speci and national conservation list speci habitats in areas affected by operat level of extinction risk	es with	

MATERIAL TOPIC:	EMISSIONS					
GRI 103: Management	103-1	PDF pgs. 24-26	-	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 41	-	Management approach and its components		
	103-3	PDF pg. 41	-	Evaluation of management approach		
GRI 305: Emissions 2016	305-1	PDF pg. 49	+/Assurance Statement	Direct greenhouse gas (GHG) emissions (Scope 1)	7, 8	RT-CH-110a.1; RT-C-110a.2; EM-MM-110a.1; EM-MM-110a.2
	305-2	PDF pg. 49	+/Assurance Statement	Energy indirect greenhouse gas (GHG) emissions (Scope 2)	7	
	305-3	PDF pg. 49	-	Other indirect greenhouse gas (GHG) emissions (Scope 3)	7	
	305-4	PDF pg. 50	-	Greenhouse gas (GHG) emissions intensity	7	
	305-5	PDF pg. 50	-	Reduction of greenhouse gas (GHG) emissions	7, 9	
	305-7	PDF pg. 50	-	$\mathrm{NO}_{\mathrm{X}}^{},\mathrm{SO}_{\mathrm{X}}^{},\mathrm{and}$ other significant air emissions		RT-CH-120a.1; EM-MM-120a.1

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE
Category: E	nvironme	ntal (contir	nued)				
MATERIAL TOPIC: E	EFFLUENTS AN	D WASTE					
GRI 103: Management Approach 2016	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
	103-2	PDF pg. 41		-	Management approach and its components		
	103-3	PDF pg. 41		-	Evaluation of management approach		
GRI 306: Effluents	306-1	PDF pg. 56		-	Total water discharge by quality and destination		
and Waste 2016	306-2	PDF pg. 58		+/Assurance Statement	Total weight of waste by type and disposal method	7	RT-CH-150a.1
	306-3	PDF pg. 60		-	Total number and volume of significant spills		
	ММЗ	PDF pg. 59		-	Overburden, rock, tailings and sludge		EM-MM-150a.1; EM-MM-150a.2
	306-4	PDF pg. 58		-	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms of the Basel Convention Annex I, II, III, and VIII, and percentage of transported waste shipped internationally		
	306-5	PDF pgs. 56-57		-	Identity, size, protected status, and biodiversity value of water bodies and related habitats significantly affected by the organization's discharges of water and runoff		

MATERIAL TOPIC: E	INVIRONMEN	TAL COMPLIANCE		
GRI 103: Management Approach 2016	103-1	PDF pgs 24-26	Explanation of material topic and its boundary	
	103-2	PDF pg. 41 -	Management approach and its components	RT-CH-140a.3
	103-3	PDF pg. 41 -	Evaluation of management approach	
GRI 307: Environmental Compliance 2016	307-1	PDF pg. 60 -	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations	RT-CH-140a.2; EM-MM-140a.2

MATERIAL TOPIC: SUPPLIER ENVIRONMENTAL ASSESSMENT							
GRI 103: Management Approach 2016	103-1	PDF pgs. 24-26	-	Explanation of material topic and its boundary			
	103-2	PDF pg. 60	-	Management approach and its components			
	103-3	PDF pg. 60	-	Evaluation of management approach			
GRI 308: Supplier Environmental Assessment 2016	308-2	PDF pg. 60	-	Significant actual and potential negative environmental impacts in the supply chain and action taken			

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE
Category: S	ocial						
MATERIAL TOPIC:	EMPLOYMENT						
GRI 103: Management Approach 2016	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
	103-2	PDF pg. 61		-	Management approach and its components		
	103-3	PDF pg. 61		-	Evaluation of management approach		
GRI 401: Employment 2016	401-1	PDF pg. 62		-	Total number and rates of new employee hires and employee turnover by age group, gender and region		
	401-2	PDF pg. 63		-	Benefits provided to full-time employees that are not provided to temporary or part- time employees, by significant locations of operation		
	401-3	<b>PDF</b> pg. 64		-	Return to work and retention rates after parental leave, by gender		
MATERIAL TOPIC:	LABOR/MANAG	GEMENT RELATI	ONS				
GRI 103:	103-1	PDF pgs.		-	Explanation of material topic and its		

GRI 103: Management	103-1	PDF pgs. 24-26	-	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 61	-	Management approach and its components		
	103-3	PDF pg. 61	-	Evaluation of management approach		
GRI 402: Labor/ Management Relations	402-1	PDF pg. 64	-	Minimum notice periods regarding operational changes, including whether these are specified in collective agreements	3	
2016	MM4	PDF pg. 65	-	Number of strikes and lock-outs exceeding one week's duration, by country		EM-MM-310a.1

MATERIAL TOPIC:	OCCUPATION	AL HEALTH AND SAFETY			
GRI 103: Management Approach 2016	103-1	PDF pgs. 24-26	Explanation of material topic and its boundary		
	103-2	PDF pg. 66 -	Management approach and its components		
	103-3	PDF pg. 66	Evaluation of management approach		
GRI 403: Occupational Health and Safety 2016	403-1	PDF pg. 66 -	Percentage of total workforce represented in formal joint management-worker health and safety committees that help monitor and advise on occupational health and safety programs	3	
	403-2	PDF pg. 66 -	Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work- related fatalities, by region		RT-C-320a.1; EM-MM-320a.1
	403-3	PDF pgs 66-67	Workers with high incidence or high risk of diseases related to their occupation		RT-CH-320a.2
	403-4	PDF pg. 68 -	Health and safety topics covered in formal agreements with trade unions		

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE
Category: S	ocial (con	tinued)					
MATERIAL TOPIC:	TRAINING AND	EDUCATION					
GRI 103: Management Approach 2016	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary		
	103-2	PDF pg. 68		-	Management approach and its components		
	103-3	PDF pg. 68		-	Evaluation of management approach		
GRI 404: Training and Education 2016	404-1	PDF pg. 68		-	Average hours of training per year per employee by gender, and by employee category	6	
	404-2	PDF pg. 69		-	Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings	6	
	404-3	PDF pg. 69		-	Percentage of employees receiving regular performance and career development reviews, by gender and by employee category		

MATERIAL TOPIC: I	DIVERSITY AN	ID EQUAL OPPORTUNITY		
GRI 103: Management Approach	103-1	PDF pgs. 24-26	-	Explanation of material topic and its boundary
2016	103-2	PDF pg. 61	-	Management approach and its components
	103-3	PDF pg. 61	-	Evaluation of management approach
GRI 405: Diversity and Equal Opportunity 2016	405-1	PDF pg. 65	-	Composition of governance bodies and breakdown of employees per employee category according to gender, age group, minority group membership, and other indicators of diversity
	405-2	PDF pg. 65	-	Ratio of basic salary and remuneration of women to men by employee category, by significant locations of operation

MATERIAL TOPIC:	MATERIAL TOPIC: NON-DISCRIMINATION						
GRI 103: Management Approach	103-1	PDF pgs 24-26	Explanation of material topic and its boundary				
2016	103-2	PDF pg. 70 -	Management approach and its components				
	103-3	PDF pg. 70 -	Evaluation of management approach				
GRI 406: Non- discrimination 2016	406-1	PDF pg. 70 -	Total number of incidents of discrimination 1, 2, 6 and corrective actions taken				

MATERIAL TOPIC: FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING						
GRI 103: Management Approach	103-1	PDF pgs 24-26	Explanation of material topic and its boundary			
2016	103-2	PDF pg. 70 -	Management approach and its components			
	103-3	PDF pg. 70 -	Evaluation of management approach			
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1	PDF pg. 70 -	Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and measures taken to support these rights			

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE		
Category: Se	Category: Social (continued)								
MATERIAL TOPIC:	MATERIAL TOPIC: CHILD LABOR								
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary				
Approach 2016	103-2	PDF pg. 70		-	Management approach and its components				
	103-3	PDF pg. 70		-	Evaluation of management approach				
GRI 408: Child Labor 2016	408-1	PDF pg. 71		-	Operations and suppliers identified as having significant risk for incidents of child labor, and measures taken to contribute to the effective abolition of child labor	1, 2, 5			

MATERIAL TOPIC:	FORCED OR C	OMPULSORY LABOR		
GRI 103: Management	103-1	PDF pgs. 24-26	Explanation of material topic and its boundary	
Approach 2016	103-2	PDF pg. 70 -	Management approach and its components	
	103-3	PDF pg. 70 -	Evaluation of management approach	
GRI 409: Forced or Compulsory Labor 2016	409-1	PDF pg. 71 -	Operations and suppliers identified as 1, 2, 4 having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of all forms of forced or compulsory labor	

MATERIAL TOPIC: RIGHTS OF INDIGENOUS PEOPLES						
GRI 103: Management	103-1	PDF pgs. 24-26	Explanation of material topic and its boundary			
Approach 2016	103-2	PDF pg. 70 -	Management approach and its components			
	103-3	PDF pg. 70 -	Evaluation of management approach			
GRI 411: Rights of Indigenous Peoples 2016	411-1	PDF pg. 71 -	Total number of incidents of violations involving rights of indigenous peoples and actions taken			
	MM5	PDF pg. 71 -	Number of operations taking place in or EM-MM- adjacent to indigenous peoples' territories EM-MM-	/		

MATERIAL TOPIC:	LOCAL COMM	IUNITIES			
GRI 103: Management	103-1	PDF pgs 24-26	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 72 -	Management approach and its components		
	103-3	PDF pg. 72 -	Evaluation of management approach		
GRI 413: Local Communities 2016	413-1	PDF pgs 72-74	Percentage of operations with implemented local community engagement, impact assessments, and development programs	7	EM-MM-210a.3; EM-MM-210b.1
	413-2	PDF pg. 74 -	Operations with significant actual and potential negative impacts on local communities		
MM6 PDF pg. 75 - Number and description of disputes relating to land u	Number and description of significant disputes relating to land use, customary rights of local communities and indigenous peoples				
	MM7 PDF pg. 7	PDF pg. 75 -	The extent to which grievance mechanisms were used to resolve disputes relating to land use, customary rights of local communities and indigenous peoples, and the outcomes		

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE		
Category: Se	Category: Social (continued)								
MATERIAL TOPIC:	PUBLIC POLIC	Y							
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary				
Approach 2016	103-2	PDF pg. 76		-	Management approach and its components				
	103-3	PDF pg. 76		-	Evaluation of management approach				
GRI 415: Public Policy 2016	415-1	PDF pg. 76		-	Total value of political contributions by country and recipient/beneficiary				

MMSD MATERIAL T	OPIC: RESET	TLEMENT	
GRI 103: Management	103-1	PDF pgs. 24-26	- Explanation of material topic and its boundary
Approach 2016	103-2	PDF pg. 75	- Management approach and its components
	103-3	PDF pg. 75	- Evaluation of management approach
GRI G4 Guidelines: Mining and Metals Sector Disclosures	MM9	PDF pg. 76	Sites where resettlements took place, the number of households resettled in each, and how their livelihoods were affected in the process

MMSD MATERIAL T	OPIC: CLOSI	JRE PLANNING	
GRI 103: Management Approach 2016	103-1	PDF pgs 24-26	Explanation of material topic and its boundary
	103-2	PDF pg. 75 -	Management approach and its components
	103-3	PDF pg. 75 -	Evaluation of management approach
GRI G4 Guidelines: Mining and Metals Sector Disclosures	MM10	PDF pg. 76 -	Number and percentage of operations with closure plans

MATERIAL TOPIC: CUSTOMER HEALTH AND SAFETY						
GRI 103: Management	103-1	PDF pgs. 24-26	-	Explanation of material topic and its boundary		
Approach 2016	103-2	PDF pg. 77	-	Management approach and its components		
	103-3	PDF pg. 77	-	Evaluation of management approach		
GRI 416: Customer Health and Safety 2016	416-1	PDF pg. 77	-	Assessment of the health and safety impacts of product and service categories		

STANDARD TITLE	MA AND INDICATORS	PAGE (OR LINK)	OMISSIONS	EXTERNAL ASSURANCE	DESCRIPTION	UNGC COP OR FAB PRINCIPLE	SASB DISCLOSURE		
Category: Social (continued)									
MATERIAL TOPIC:	MARKETING A	ND LABELING							
GRI 103: Management	103-1	PDF pgs. 24-26		-	Explanation of material topic and its boundary				
Approach 2016	103-2	PDF pg. 77		-	Management approach and its components				
	103-3	PDF pg. 77		-	Evaluation of management approach				
GRI 417: Marketing and Labeling 2016	417-1	PDF pg. 78		-	Type of product and service information required by the organization's procedures for product and service information and labeling, and percentage of significant product and service categories subject to such information requirements				
	417-2	PDF pg. 78		-	Total number of incidents of non- compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes				

# **Organizational Profile**

### 102-2 Activities, brands, products and services

The Mosaic Company is the world's leading producer and marketer of concentrated phosphate and potash crop nutrients. Through our broad product offering, we are a single source supplier of phosphate- and potash-based crop nutrients and animal feed ingredients. We serve customers in approximately 40 countries. We are the second largest integrated phosphate producer in the world and one of the largest producers and marketers of phosphate-based animal feed ingredients in North America and Brazil. Following our January 8, 2018 acquisition (the "Acquisition") of the global phosphate and potash operations of Vale S.A. conducted through Mosaic Fertilizantes P&K Ltda (formerly Vale Fertilizantes S.A.), we are the leading fertilizer production and distribution company in Brazil.

We mine phosphate rock in Florida and Brazil. We process rock into finished phosphate products at facilities in Florida, Louisiana and Brazil. Upon completion of the Acquisition, we became the majority owner of a joint venture operating a phosphate rock mine in the Bayovar region in Peru, in which we previously held a minority equity interest. We mine potash in Saskatchewan, New Mexico and Brazil. We have other production, blending or distribution operations in Brazil, China, India and Paraguay, as well as a joint venture to develop a phosphate rock mine and chemical complexes in the Kingdom of Saudi Arabia.

#### **Phosphates**

We sell phosphate-based crop nutrients and animal feed ingredients throughout North America and internationally. We account for approximately 74 percent of estimated North American annual production of concentrated phosphate nutrients.

#### Potash

We sell potash throughout North America and internationally, principally as fertilizer, but also for use in industrial applications and, to a lesser degree, as animal feed ingredients. We account for approximately 34 percent of estimated North American annual potash production.

#### **Mosaic Fertilizantes**

We produce and sell phosphate and potash-based crop nutrients, and animal feed ingredients, in Brazil. In addition to five phosphate rock mines, four chemical plants and a potash mine in Brazil, this segment consists of sales offices, crop nutrient blending and bagging facilities, port terminals and warehouses in Brazil and Paraguay. The Mosaic Fertilizantes segment also serves as a distribution outlet for our Phosphates and Potash segments. We account for approximately 69% of estimated annual production of concentrated phosphate crop nutrients in Brazil and 100% of estimated annual potash production in Brazil.









### 102-4 Location of operations

We mine phosphate rock in Florida, Peru and Brazil and process rock into finished phosphate products at facilities in Florida, Louisiana and Brazil. We mine potash in Saskatchewan, New Mexico and Brazil. We have other production, blending or distribution operations in Brazil, China, India and Paraguay, as well as a joint venture formed to develop a phosphate rock mine and chemical complexes in the Kingdom of Saudi Arabia.

Mosaic conducts business through wholly and majority-owned subsidiaries, as well as businesses in which we own less than a majority or a non-controlling interest. We are organized into three reportable business segments: Phosphates, Potash and Mosaic Fertilizantes. Additional information about our business and operating segments is provided in our **2019 10–K**.

#### **Global Operations**



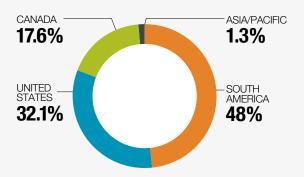
### 102-8 Information on employees and other workers

As of December 31, 2019, Mosaic employed 12,271 regular employees.

### WORKFORCE BY REGION AND GENDER

COUNTRY	MALE	FEMALE	TOTAL
Australia	1	0	1
Brazil	5,157	733	5,890
Canada	1,856	306	2,162
China	109	51	160
India	55	8	63
Paraguay	50	10	60
United States	3,327	608	3,935
Total	10,555	1,716	12,271

#### **EMPLOYEES BY REGION**



NOTE: Mosaic does not track individual contract worker counts or demographics. Figures exclude long-term leaves, co-ops, seasonal and temporary employees. Employees considered to be on long-term leave are those away from work more than 180 days. "Temporary" employees represent a very small percentage of our total workforce (less than 1%). In 2019, we had three part-time (defined as less than 35 hours per week) employees in the United States, all of whom were female. These employees are included in the totals above. 14 percent of Mosaic's total workforce is female.

### 102-9 Supply chain

Mining, producing and delivering millions of tonnes of fertilizer each year to customers around the globe is complex. It requires teams of dedicated professionals working to make responsible decisions each day and at every step in the production and supply chains.

#### MINING

We work to safely extract potash and phosphate ore from the Earth's extensive reserves.

FACT In our Florida Phosphate operations, phosphate rock is recovered using draglines. Our Brazil operations use an open pit process to extract phosphate reserves.

#### MANUFACTURING

We refine, process, and blend phosphate and potash minerals to create crop nutrition products, then prepare goods for shipment.

FACT We produce renewable energy through cogeneration, the process of converting waste heat to energy, satisfying approximately 40% of our phosphate operations' annual electricity consumption.

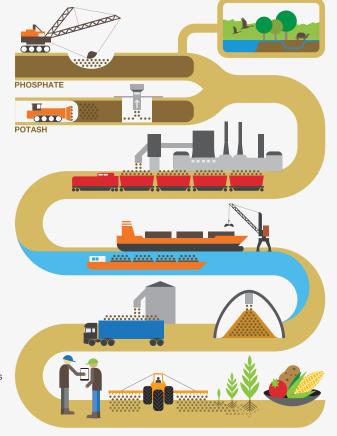
#### **CUSTOMERS**

We sell to retail customers and regional distributors, as well as large international growers.

#### FARMERS

We provide large and smallholder farmers with the vital crop nutrients and micronutrients they need to help grow healthy plants, achieve better yields, and grow food, feed, fuel and fiber more sustainably.

FACT Our premium MicroEssentials® product increases corn yields an average of 7.2 bushels per acre vs. traditional fertilizer.



## LAND RECLAMATION & COMPENSATION

In Florida, we reclaim every acre of phosphate-mined land, creating high-quality habitats and wildlife corridors for fish, birds, and other animals, and land suitable for agriculture and other diverse beneficial uses. In Brazil, reclamation efforts include resloping and revegetating the mined area. Additionally, we set aside a portion of a mining site — approximately 20 percent of the project footprint—as a part of our efforts to preserve and protect unmined land.

FACT We reuse and recycle water to decrease our companywide consumption and increase efficient use.

#### TRANSPORTATION

We move raw materials, phosphate, potash and finished crop nutrition products across the supply chain using pipelines, trains, trucks, river barges and ships.

#### **STORAGE & DISTRIBUTION**

We have port terminals, warehouses and storage capacity in key geographies, with global distribution.

#### CONSUMERS

Our crop nutrients play a key role in growing crop yields and providing people with the healthy, affordable food they need to thrive.

FACT We partner with Field to Market<sup>®</sup>, The Nature Conservancy and other organizations on initiatives aimed at increasing agricultural productivity, sustainability and food security while reducing environmental impacts and protecting natural resources.

Unlike many of our competitors, we have our own distribution system to sell phosphate- and potash-based crop nutrients and animal feed ingredients, whether produced by us or by other third parties, around the globe. In North America, we have one of the largest and most strategically located distribution systems for crop nutrients, including warehouse facilities in key agricultural regions. We also have an extensive network of distribution facilities internationally, including in the key growth regions of South America and Asia, with port terminals, warehouses, and blending plants in Brazil, Paraguay, China, and India. Our distribution operations serve the top four nutrient-consuming countries in the world: China, India, the United States and Brazil.

Our global presence allows us to efficiently serve customers in approximately 40 countries. See our **2019 10-K** for more information about our supply chain.

### 102-10 Significant changes to the organization and its supply chain

- In 2019 our corporate headquarters opened in Tampa, Florida following the 2018 announcement to relocate the headquarters from Plymouth, Minnesota. The Plymouth office remains open as an administrative office, housing some finance, law, human resources and commercial employees.
- In 2019 we announced several changes in senior leadership.
  - Chris Lewis was named Senior Vice President (SVP) of Human Resources in June
  - In November we announced that Rick McLellan, SVP Brazil, would return to the United States to lead Mosaic's commercial organization as SVP – Commercial. Corrine Ricard succeeded Rick McLellan as Senior Vice President – Brazil. Corrine Ricard was previously in the role of SVP – Commercial and has prior experience as Mosaic's SVP – Human Resources.
- Early in 2019, Brazil's National Mining Agency implemented new standards regarding tailings dam safety, construction, environmental licenses and operations. As a result of these new standards, we temporarily idled operations at four tailings dams and three related phosphate mines at Araxá, Tapira and Catalão while we implemented changes to comply with the new standards. The Catalão mine returned to full operation in June 2019 and the Tapira and Araxá mines returned to full production in September 2019.
- In response to market conditions, we took steps to reduce fertilizer production at some of our facilities until market conditions improve.
  - In October we announced that we would temporarily operate at lower rates at our Esterhazy, Saskatchewan potash mine
  - We announced the indefinite idling of our Colonsay facility. The mine will be placed in care and maintenance mode, employing minimal staff and allowing for resumption of operations when needed to meet customers' needs
  - In December we announced that we planned to decrease phosphate production at our Central Florida facilities by 150,000 tonnes per month, in addition to the 500,000 tonne reduction we implemented in the second half of 2019, primarily affecting our Louisiana operations
  - The Florida South Pasture phosphate mine remained idled in 2019
  - We announced the permanent closure of our Plant City, Florida facility, which was previously idled in late 2017, reaffirming our commitment to low-cost operations On September 24, 2019, Mosaic entered into a long-term lease agreement with Anuvia Plant Nutrition to lease certain assets at that location
- We announced the closure of our Savage, MN warehouse and the purchase of Pine Bend, MN warehouse. Many Savage warehouse employees were offered positions at the Pine Bend facility. Those not relocating were offered severance and provided ample notice and career transition services.
- We acquired the Port Sutton ammonia facility, which we previously leased. There were no changes to our workforce as a result of the purchase of this facility.

### 102-12 External initiatives 102-13 Membership of associations

Mosaic recognizes the importance of being active in industry associations and cross-sector business forums. These common platforms help advance cutting-edge scientific research and best management practices within our company and our industry. We consider the relevance of each engagement opportunity to our business strategies, and we pursue mutually beneficial partnerships. Many of the key organizations we engage with are listed here.

ORGANIZATION	WAYS WE ENGAGE	INVOLVEMENT
CROSS-SECTOR ORGANIZ	ATION	
Brazilian Network of the United Nations Global Compact (UNGC)	Signatory and Advisory Council Member	In 2019, Mosaic Fertilizantes became a signatory to the Brazilian Network of UNGC, affirming our deep commitment to operating responsibly. In early 2020 our Mosaic Fertilizantes business became a member of the UNGC Brazil Advisory Council.
CDP	Reporter Services Member for Climate Change and	Mosaic supports CDP's aims to improve transparency with respect to greenhouse gas emissions goals and develop reduction strategies. We report to CDP annually.
Ethos Institute for Company Social Responsibility	Member	In 2019, Mosaic became a member of the Ethos Institute, a leading civil society organization in Brazil, which is responsible for promoting sustainable and responsible management practices.
Global Reporting Initiative (GRI)	GOLD Community	As a member of the GOLD Community, Mosaic is helping to shape the future of sustainability and reporting. Our annual sustainability disclosure is based on GRI's Standards: Core Option.
United Nations Global Compact (UNGC)	Signatory	In 2011, Mosaic became a signatory to the UNGC, affirming our deep commitment to operating responsibly. In early 2019 our Mosaic Fertilizantes business became a signatory to UNGC. We communicate our progress on the UNGC's universal principles in our annual sustainability disclosure.

#### **INDUSTRY ORGANIZATION**

Agriculture Nutrient Policy Council (ANPC)	Member	Our membership in the ANPC allows us to be an active stakeholder and leader in the policy process.
Agricultural Retailers Association (ARA)	Board Level	Mosaic contributes to ARA's mission to advocate, influence, educate and provide support to agricultural retailers.
Associação Nacional para Difusão de Adubos (ANDA)	Board Level	As a member of ANDA, Mosaic promotes the value and correct use of fertilizers in Brazil.
Brazilian Agribusiness Association (ABAG)	Member	At ABAG, Mosaic engages in policy discussions to improve the business environment for agribusiness and promote initiatives to support farmers.
Brazilian Association of Mineral Feed Industries (ASBRAM)	Member	Mosaic engages in regulatory discussions that affect the animal feed industry.
Brazilian Mining Institute (IBRAM)	Board Level	Through IBRAM, Mosaic contributes directly to regulatory discussions that affect the mining sector and provides support of sustainability initiatives.
Business Council for International Understanding (BCIU)	Member	Mosaic is a member of BCIU, which promotes cooperation between U.S. companies with the diplomatic community around the world.
Conservation Technology Information Center (CTIC)	Board Level	Mosaic continued to partner with CTIC on several initiatives that champion, promote, and provide information on technologies and sustainable agricultural systems.
Fertiliser Association of India (FAI)	Member	Mosaic supports and partners with FAI in its objective to ensure food security through balanced and efficient use of plant nutrients.
Fertilizer Canada (formerly Canadian Fertilizer Institute)	Committee and Board Level	Mosaic supports Fertilizer Canada's efforts to promote the responsible, sustainable and safe production distribution and use of fertilizers.
Field to Market	Member	Mosaic contributes to solutions for sustainability and continuous improvement in U.S. commodity agriculture.

# 102-13 Membership of associations (continued)

ORGANIZATION	WAYS WE ENGAGE	INVOLVEMENT
INDUSTRY ORGANIZATION	I (CONTINUED)	
Florida Chamber of Commerce	Member	Mosaic is engaged with the Chamber's policy development process and their advocacy for business, and participates in the Chamber's legislative candidate interview evaluation process.
Industrial Energy Consumers of America (IECA)	Board and Committee	Mosaic participates in IECA's engagement on federal energy-related issues in the United States and contributes to discussions with Federal Energy Regulatory Commission and Department of Energy about fair energy.
International Fertilizer Industry Association (IFA)	Member	Mosaic supports IFA's efforts to represent, promote and protect the fertilizer industry among policymakers, regulators, farmers and society at large.
Manufacturers Association of Florida (MAF)	Board	Mosaic participates the development of MAF's advocacy positions on issues of importance to Florida manufacturing, including workforce education and regulatory issues, and assists with advocacy efforts.
Manufacturers Alliance for Productivity and Innovation (MAPI)	Member and Council Participant	MAPI's mission is to build strong leadership within manufacturing, and to drive the growth, profitability, and stature of global manufacturers. As a member of MAPI, Mosaic has representatives on several councils, and uses and provides input to the non-profit's research and benchmarking efforts.
Mining Industry Union of the State of Goiás (SIEEG)	Member	Mosaic engages SIEEG as part of the Mining Chamber of the State of Goiás, a network of companies that promotes a better business environment for the mining industry.
Mining Industry Union of the State of Minas Gerais	Member	Mosaic engages Sindiextra to promote a better business environment for the mining industry in the State of Minas Gerais.
National Association of Manufacturers (NAM)	Member and Board Level	Through membership and committee participation, Mosaic contributes to NAM's work to create a favorable policy climate for manufacturing in the United States.
National Union for the Animal Feed Industry (Sindirações)	Member	Through Sindirações, Mosaic contributes to the discussions at the technical chambers of the Ministry of Agriculture of Brazil.
National Union for the Fertilizer's Raw Materials Industry (Sinprifert)	Board Level	At the board level of Sinprifert Mosaic leads initiatives to improve the competitiveness of the national producers of fertilizers.
Saskatchewan Chamber of Commerce	Committee and Board Level	Mosaic contributes to the Chamber's role as the voice of Saskatchewan business, promoting Saskatchewan as the best place to live, work and invest.
Saskatchewan Mining Association (SMA)	Committee and Board Level	Mosaic supports the SMA's aims to enhance the general welfare of the mining industry through technical innovations in the fields of health and safety standards, waste disposal, environmental protection, and extractive metallurgy research and development.
The Fertilizer Institute (TFI)	Committee and Board Level	Mosaic partners with TFI in its mission to represent and promote the fertilizer industry.
New Mexico Mining Association (NMMA)	Board Level	As a member of the Board, Mosaic supports the NMMA's goal of advancing the mineral resources and mining industries in New Mexico.
Canadian Chamber of Commerce	Member and Committee	Mosaic leaders sit on two committees: Ottawa Liaison Committee & Natural Resources & Environment Committee.
Tampa Bay Partnership	Member and Board Level	The CEO-driven regional advocacy organization is committed to creating a unified, competitive and prosperous Tampa Bay.
Tampa Bay Economic Development Council	Member	Tampa Bay Economic Development Council is the lead designated economic development agency for Hillsborough County and the cities of Tampa, Plant City, and Temple Terrace, and an official partner of Enterprise Florida, Inc.

## **Ethics and Integrity**

### 102-16 Values, principles, standards and norms of behavior 102-17 Mechanisms for advice and concerns about ethics

In a rapidly changing business environment, it is important for us to remain grounded and focused on what we agree is most important. No matter where Mosaic operates in the world, we ask that our employees adhere to the same companywide principles.

MISSION: We help the world grow the food it needs

PRINCIPLES: We are responsible, innovative, collaborative and driven

#### **PRIORITIES:**

· North America Transformation

Uncover and pursue new opportunities to improve the profitability and competitiveness of our Potash and Phosphates businesses

#### South America Growth Engine

Leverage Mosaic's in-country capabilities to drive additional growth and profitability

#### $\cdot$ Grow and Strengthen Our Product Portfolio

Pursue diverse opportunities that make us stronger and that yield mutual benefits for Mosaic and our customers

#### · Drive Functional Collaboration and Efficiency

Rethink and re-engineer outdated and inefficient processes, and continue to look for new ways to improve

- Optimize Operating Assets and Capital Management Continually assess, prioritize and allocate capital across the business and make decisions that strengthen our balance sheet
- · Act Responsibly

Be a good corporate citizen and contribute to the vitality of the people and the communities around us, which address profitability, competitiveness and our ability to deliver value to our diverse constituents.

Our **Code of Business Conduct and Ethics** aligns with those principles and provides information about how we make sure we always do the right thing. Mosaic also maintains a 24-hour independently administered confidential and anonymous incident reporting hotline for all Mosaic employees, contractors, vendors, and the public to report perceived ethical issues.

### Governance

# **102-20** Executive-level of responsibility for economic, environmental and social topics

Mosaic's approach to sustainability reflects our commitments to global food security, the environment, our people, the communities where we operate, and our company. We encourage each person at Mosaic to act responsibly and contribute to our company's success. It's our collective decisions and actions that must be ethical, strategic and sustainable.

Sustainability leadership begins with our Board of Directors (Board). The Environmental Health, Safety and Sustainable Development (EHSS) Committee of the Mosaic Board of Directors provides oversight of our environmental, health, safety, and sustainable development strategic vision and performance.

View our **2019 Proxy Statement** and the **EHSS Committee Charter** for more information. The Board and Senior Leadership Team review the EHSS Committee's recommendations in order to develop new companywide policies, initiatives, targets and goals. A team of employees, overseen by a Vice President of Public Affairs, manages sustainability initiatives on a day-to- day basis.

The Mosaic Company **Senior Leadership Team (SLT)**, led by our President and Chief Executive Officer, is primarily responsible for managing profit and loss and delivering growth. Implementation and delivery of Mosaic's business strategy and plan are monitored by SLT members. The SLT is supported in matters of sustainability by leading vice president- and director-level employees who are accountable for ensuring the goals are achieved through site-specific, business segment and companywide implementation.

### **Stakeholder Engagement**

### 102-40 List of stakeholder groups

### 102-42 Basis for identification and selection of stakeholders with whom to engage

### 102-43 Organization's approach to stakeholder engagement

### 102-44 Key topics and concerns that have been raised through stakeholder engagement

Mosaic's stakeholders include our employees, investors, local communities, customers, government and regulatory officials, civil society organizations, environmental organizations, suppliers, media, academia and others. We identify our stakeholders as those who are affected by our activities and whose actions have the potential to affect the outcome of our business activities. Our stakeholders help shape our strategic priorities and give meaning to our mission to help the world grow the food it needs.

MOSAIC'S STAKEHOLDERS	WAYS WE ENGAGE	HOW OFTEN	TOPICS OF IMPORTANCE
Academia	Fund or sponsor research, technical and industry meetings, research site visits, in-person visits during growing season, remote meetings	Monthly to Quarterly	Product and process innovations, agronomic research and development, nutrient stewardship, product trials, regulations, and impacts of our business and the industry
Civil Society Organizations	Internet site, meetings with organizations, local community and business leaders, corporate communications	Weekly to Biannually	Nutrient stewardship, habitat conservation, watershed protection and restoration, sustainable agriculture, food security, local community investment and partnerships
Customers	Sales relationships, regular visits, customer service surveys, special events, memberships in industry organizations	Weekly to Biannually	Product innovations, agronomic research and development, nutrient stewardship, certifications, impacts of our business and the industry
Employees, Senior Leadership Team and Board of Directors	Intranet sites, e-screens at plants and mines, town hall meetings, engagement surveys and activities, Annual Meeting, committee meetings	Daily	Environment, health and safety; company, business segment and facility performance; our business and our industry; business conduct and ethics; professional development and training; Mosaic's strategic community
Government and Regulatory Officials	Federal, provincial/state, and local executive and legislative branch advocacy, permitting applications, tours of plants and mines, engagement in state, national and trade association activities	Biweekly to Quarterly	Compliance, environmental investment and footprint, industry leadership, voluntary programs
Investors and Financial Markets	Internet site, webcasts and presentations, Securities and Exchange Commission (SEC) reports, analyst meetings, annual shareholder's meeting, press releases	Daily to Quarterly	Investments, financial results, market data, operational excellence, risks and opportunities, company and shareholder priorities
Joint Ventures and Business Partners	Board meetings, technical and planning sessions, site visits	Daily to Biannually	Project details, environment, health and safety, investments, technologies, product and process knowledge
Labor Unions	Employee and labor relations meetings, contract negotiations	Daily to Annually	Safety, contract interpretation, employee relations issues, engagement, productivity, work environment
Local Communities	Internet site and community microsites, tours of plants and mines, community advisory panels, town halls and/or open houses, media, community organization memberships, economic and charitable partnerships	Daily to Quarterly	Partnerships and community relations, corporate and charitable support, environmental investment, environmental footprint, education, local jobs, economic impact
Media	Press releases, interviews and briefings, internet site and community microsites, SEC reports, tours of plants and mines, town halls and/or open houses	Daily to Quarterly	Company priorities, performance and products, food security, nutrient stewardship, watershed restoration, local economic impact, partnerships and community relations, corporate and charitable support
Retirees	Mailings, HR Connect	As needed to Annually	Plan benefit summaries and changes, investment updates and disclosures
Suppliers	Internet site, supplier survey, site visits, meetings	Daily to Biannually	Cost reduction, productivity, quality and innovation opportunities; new technologies; contract preparation; environment, health and safety evaluation; products and services provided; certifications; impacts of products and services
Trade and Industry Associations	Organizational membership, committee participation, meetings	Monthly to Quarterly	Productivity and innovation, best practices, industry priorities, risk management

### 102-41 Employees covered by collective bargaining agreements

-	WIF LOT LLS OUVERLD DT OOLLEO	Lorles covered by collective bandalining adheements					
	COUNTRY	UNION EMPLOYEES	NON-UNION EMPLOYEES	% COVERED BY COLLECTIVE BARGAINING AGREEMENTS			
	Brazil	5,890	0	100%			
	Canada	1,214	948	56%			
	China*	157	3	98%			
	India	0	63	98%			
	Paraguay	0	60	0%			
	United States of America	1,933	2,002	49%			
	Total	9,194	3,076	75%			

#### EMPLOYEES COVERED BY COLLECTIVE BARGAINING AGREEMENTS

NOTE: We work closely with unions and our unionized employees at both a national and international level. All China employees, except those still on a probation period, are represented by collective bargaining agreements. The total reported above represents the percentage of our total workforce covered by collective work agreements. Figures differ from what is reported in the 2019 10-K in that it represents percent of all employees, whereas the 10-K cites union involvement as a percent of the hourly workforce.

## **Reporting Practice**

### 102-46 Defining report content and Topic Boundaries

### 102-47 List of material topics

### **103-1** Topics and Topic Boundaries

As a global, publicly traded company, we are continually exploring what it means to be responsible and accountable to Mosaic's diverse stakeholders. From employees, customers, shareholders and industry partners to trade unions, community organizations, government officials and academics, we seek ongoing dialogue with individuals or representatives of stakeholder organizations that impact—or are impacted by—Mosaic's business activities.

Topics and indicators that reflect Mosaic's significant economic, environmental and social impacts or that would substantively influence the assessments and decisions of stakeholders are deemed by us to be "significant" for sustainability reporting purposes.

AccountAbility's AA1000 Stakeholder Engagement Standard guided the review process that reflects our company's commitment to more fully inform all stakeholders on matters that influence our business and society.

In addition to analyzing peer sustainability reports, Global Reporting Initiative (GRI) Standards: Core option and the GRI Mining and Metals sector supplement, as well as other reports and frameworks, our ongoing analysis includes:

- Reviewing Mosaic's public financial reports, sustainability reports, GRI tables, policies and commitments as well as an internally conducted survey of senior management, customers and employees
- Scanning media reports, social media and blogs for issues raised for public concern
- · Engaging leaders of local, regional, national and global community organizations
- Comparing sustainability materiality determination practices to peer companies
- Cataloging issues identified by stakeholder surveys, sustainability indexes, United Nations Sustainability Development Goals, principles of the United Nations Global Compact, regulatory and policy trends, industry associations and cross-sector partnerships
- Reviewing marketing research and customer satisfaction survey results
- Analyzing investor insights
- · Compiling community perceptions through social media activity and brand awareness surveys

Significant issues are structured around and summarized in four areas of our sustainability focus: People, Environment, Society and Company. Please see our **website** for relevant updates in each of these areas.

Mosaic team members originally evaluated the significance of more than 50 issues based on their relevancy and importance to stakeholders, the likelihood of impact and the connection to Mosaic's business strategies and values. We monitor these issues as part of the process described above. In 2018 we began a materiality refresh exercise to incorporate insights from the newly acquired Mosaic Fertilizantes business. As part of the refresh process we analyzed reporting disclosures by Mosaic and Brazil peer companies and suppliers to identify gaps in stakeholder groups and engagement methods, material issues and reporting best practices; and to evaluate opportunities for improvement in areas related to targets-setting, prioritization of material issues, external assurance of materiality and sustainability governance. Our goals and reporting continue to evolve as we refine our understanding and identify further significant issues.

Full disclosures of Mosaic's management approach precede the disclosure of the respective topic. We list boundaries for each topic below.

#### MATERIAL TOPICS

GRI	ТОРІС	TOPIC BOUNDARY WITHIN THE ORGANIZATION	TOPIC BOUNDARY OUTSIDE THE ORGANIZATION				
GRI 201	Economic Performance	TOPIC BOUNDARY         Within Mosaic         -	Investors; Suppliers and Joint Ventures; Competitors; Government and Regulatory Officials; Civil Society Organizations; Media				
GRI 202	Market Presence		Local Communities;				
GRI 203	Indirect Economic Impacts		Civil Society Organizations				
GRI 204	Procurement Practices		Investors; Suppliers and Joint Ventures; Competitors; Government and Regulatory Officials; Civil Society				
GRI 205	Anti-corruption						
GRI 206	Anti-competitive Behavior		Organizations; Media				
GRI 301	Materials	-	Local Communities; Suppliers;				
GRI 303	Water		Customers; Government and Regulatory Officials; Investors, Media				
GRI 304	Biodiversity						
GRI 305	Emissions						
GRI 306	Effluents and Waste						
GRI 307	Environmental Compliance						
GRI 308	Supplier Environmental Compliance						
GRI 401	Employment		Suppliers, Local Communities,				
GRI 402	Labor/Management Relations		Government and Regulatory Officials; Labor Unions; Investors, Media				
GRI 403	Occupational Health and Safety						
GRI 404	Training and Education						
GRI 405	Diversity and Equal Opportunity						
GRI 406	Non-discrimination						
GRI 407	Freedom of Association and Collective Bargaining						
GRI 408	Child Labor						
GRI 409	Forced or Compulsory Labor						
GRI 411	Rights of Indigenous Peoples						
GRI 412	Human Rights Assessment						
GRI 413	Local Communities		Suppliers, Local Communities,				
GRI 415	Public Policy		Government and Regulatory Officials; Labor Unions; Media				
GRI 416	Customer Health and Safety						
GRI 417	Marketing and Labeling						

### 102-45 Entities included in the consolidated financial statements

### 102-48 Restatements of information

### 102-49 Changes in reporting

### 102-54 Claims of reporting in accordance with the GRI Standards

### 102-56 External assurance

Our 2019 sustainability disclosure details The Mosaic Company's 2019 performance across broad sustainability focus areas of People, Environment, Society and Company. Our report has been prepared in accordance with the GRI Standards: Core option. The content of this report has been shaped by the issues identified through a significance study, the results of which we analyze on an ongoing basis. This report primarily summarizes the activities occurring in the period of calendar year 2019 and, unless otherwise noted, all data is presented on a calendar year (CY) basis. We encourage readers to refer to our **2019 10–K**, our **2019 Performance Summary, Environment Metrics Supplement** and **mosaicco.com** for additional information about Mosaic's performance.

This report covers our global operations, including entities over which Mosaic exercises majority operational control, including all its operations and departments that have the potential to generate significant impacts. Except for financial and select environmental data, this report does not specifically reflect equity-method investments, including joint ventures in which we have a minority interest. Please see our **2019 10–K** (page F-54) for more information about those investments.

This disclosure includes data from facilities we acquired as part of the 2018 acquisition of Vale Fertilizantes S.A. in Brazil. We are also including data from the Miski Mayo mine as part of our Phosphates business since we became the majority owner of the joint venture that operates it following the Vale Fertilizantes acquisition. Impacts associated with a joint venture in the Kingdom of Saudi Arabia in which we have a 25% interest are reported as part of our **Scope 3 emissions in 305-3**.

In this report, we are restating 2018 companywide indirect energy use due to an error with one of our Potash facility's reporting of electricity. As the total impact on companywide total energy intensity and GHG intensity is less than 1%, we are not restating total energy use and total energy intensity. We are also restating 2018 reclaimed water due to an overstatement of reclaimed water use in our Mosaic Fertilizantes business last year. We are updating 2018 surface water use to reflect the addition of seawater withdrawals from our Miski Mayo operations and will report those volumes as part of surface water withdrawals moving forward.

ERM CVS performed limited assurance of 2019 total energy (direct and indirect), total GHG emissions (Scope 1 & Scope 2), Scope 1 GHG emissions, Scope 2 emissions, total water withdrawals, and total water withdrawals by source. ERM CVS also performed limited assurance of 2019 total waste data for our Potash and Phosphates businesses. To understand the scope, activities and conclusions of the assurance process, please view the **ERM CVS Assurance Statement**.

Throughout the report, "tonnes" refers to metric ton unit of measurement equaling approximately 2,205 pounds, whereas the occasional reference to "tons" refers to the unit of measurement equaling 2,000 pounds. References to sulfur are in "long tons," which is equal to 2,240 pounds.

## **Management Approach: Economic Performance**

Since forming in 2004, Mosaic has grown to be a global leader in phosphates and potash crop nutrition. We are proud to be a competitive, low-cost producer with strong customer relationships and the financial strength to invest in growth. And we've led the industry in developing high-quality premium products that help growers succeed. We are focused on executing against six strategic priorities:

North America Transformation - Uncover and pursue new opportunities to improve the profitability and competitiveness of our Potash and Phosphates businesses

**South America Growth Engine** - Leverage Mosaic's in-country capabilities to drive additional growth and profitability

**Grow and Strengthen Our Product Portfolio** - Pursue diverse opportunities that make us stronger and that yield mutual benefits for Mosaic and our customers

**Drive Functional Collaboration and Efficiency** - Rethink and re-engineer outdated and inefficient processes, and continue to look for new ways to improve

**Optimize Operating Assets and Capital Management -** Continually assess, prioritize and allocate capital across the business and make decisions that strengthen our balance sheet

Act Responsibly - Be a good corporate citizen and contribute to the vitality of the people and the communities around us, which address profitability, competitiveness and our ability to deliver value to our diverse constituents.

Mosaic's sustainability efforts and performance are closely aligned with our operational and financial goals. We respond annually to CDP and use the Global Reporting Initiative (GRI) Standards with the Mining and Metals Sector Supplement to report on our environmental and sustainability performance. Our reporting index is aligned to many of the Sustainability Accounting Standards Board (SASB) metrics for the Metals & Mining and Chemicals industries.

As it relates to maximizing our impact in communities, we believe it is our responsibility to use our financial resources, technical expertise and innovative spirit to help the world sustainably grow the food it needs through strategic partnerships with leading organizations.

Our community investments are focused in the areas of food, water and local initiatives.

**FOOD:** Mosaic is committed to supporting organizations that advance global agricultural development, agricultural research and education, and hunger relief for community members in need. These programs, respectively, include: The Mosaic Villages Project in India; micronutrient deficiency research and mobile soil testing labs; and local community food drives, food distribution trucks and school backpack programs.

**WATER:** Mosaic supports organizations that work in watershed restoration, habitat conservation and nutrient stewardship. These programs, respectively, include shoreline restoration and oyster reef installations; improved land management practices and wildlife protection; and 4R nutrient stewardship, which is best management practices for fertilizer application, minimizing field runoff and improving farmer yields.

**LOCAL:** Mosaic supports philanthropic or civic partnerships that enrich the long-term strength of communities in which Mosaic has offices and operations. These programs include local schools, health care institutions, museums; special projects and sponsorship of events; and housing and disaster relief.

For more information on our management approach and financial progress, please see our **2019 10–K** and **company website**.

We support a variety of formal and informal Mosaic channels through which stakeholders can submit concerns, including **communicating with the Board of Directors**.

### 201-1 Direct economic value generated and distributed

#### ECONOMIC PERFORMANCE (IN MILLIONS)

[	2015	2016	2017	2018	2019
Revenue	\$8,895.30	\$7,162.80	\$7,409.40	\$9,587.30	\$8,906.30

#### **OPERATING COSTS (IN MILLIONS)**

	2015	2016	2017	2018	2019
Cost of Goods Sold	\$7,177.4	\$6,352.8	\$6,566.6	\$8,088.9	\$8,009.0
Selling, General and Administrative Expenses	\$361.2	\$304.2	\$301.3	\$341.1	\$354.1
Impairment and Restructuring Costs	\$0.0	\$0.0	\$0.0	\$0.0	\$1,462.1
Less: Unrealized Gain/Loss on Derivatives	\$31.9	(\$70.0)	\$12.4	(\$32.6)	\$39.8
Less: Depreciation, Depletion and Amortization	\$739.8	\$711.2	\$665.5	\$883.9	\$882.7
*Less: Wages and Benefits	\$1,441.5	\$1,358.1	\$1,435.2	\$1,657.5	\$1,539.2
Total Operating Costs	\$5,325.4	\$4,657.7	\$4,754.8	\$5,921.2	\$7,363.5
Wages and Benefits	\$1,441.5	\$1,358.1	\$1,435.2	\$1,657.5	\$1,539.2

\* As reported in the Mosaic 2019 Form 10-K, Cost of Goods Sold include plant and manufacturing personnel wages and benefits while Selling, General and Administrative expenses generally include corporate personnel wages and benefits. For purpose of the sustainability disclosure, we show the portion of Cost of Goods Sold and Selling, General and Administrative expenses that constitute wages and benefits for plant and corporate employees.

#### PAYMENTS TO PROVIDERS OF FUNDS (IN MILLIONS)

	2015	2016	2017	2018	2019
Dividends Paid	\$384.7	\$385.1	\$210.60	\$38.5	\$67.2
Payments for Share Repurchases	\$709.5	\$75.0	\$0.0	\$0.0	\$149.9
Interest Paid (Net of Amount Capitalized)	\$126.2	\$124.5	\$155.0	\$173.9	\$202.8
Total Payments to Providers of Funds	\$1,220.4	\$584.6	\$365.6	\$212.4	\$419.9
Retained Earnings	\$11,014.8	\$10,863.4	\$10,631.1	\$ 11,064.7	\$ 9,921.5

#### TAX - PAYMENT TO GOVERNMENT (IN MILLIONS)

	2015	2016	2017	2018	2019
United States	\$79.4	(\$45.0)	(\$57.6)	(\$42.4)	(\$93.4)
Canada	\$112.8	(\$25.3)	(\$8.7)	\$12.2	\$120.0
Brazil	(\$5.9)	(\$1.7)	\$3.4	(\$15.1)	\$8.3
Other	\$7.0	\$6.6	(\$7.2)	\$11.1	\$11.6
Total Income Taxes Paid	\$193.3	(\$65.4)	(\$70.1)	(\$34.2)	\$46.5

\*2016 United States tax refunds relate to 2003 and FY2012 overpayments, while 2016 Canada tax refunds relate to 2015 overpayments. 2017 United States tax refunds relate primarily to 2013, 2015, and 2016 overpayments, while 2017 Canada tax refunds relate to 2016 overpayments. 2018 and 2019 United States tax refunds relate primarily to AMT tax credit refunds as a result of the Tax Cuts and Jobs Act. The 2018 Brazil tax refunds relate to refunds of tax credits.

### 201-1 Direct economic value generated and distributed (continued)

#### CANADIAN RESOURCE TAXES AND ROYALTIES EXPENSE (IN MILLIONS)

	2015	2016	2017	2018	2019
Canadian Resource Taxes and Royalties Expense**	\$281.3	\$121.6	\$142.0	\$198.8	\$211.9
** Represents tax expense during the period not	cash navments				

nts tax expense during the period, not cash payme

#### OTHER NON-INCOME TAXES AND ROYALTIES\*\*\* (IN MILLIONS)

	2015	2016	2017	2018	2019
Other Non-income Taxes	\$75.6	\$82.0	\$84.3	\$89.1	\$89.2
Other Royalties	\$10.5	\$7.9	\$7.0	\$22.7	\$29.6

\*\*\* Other non-income taxes include property taxes and a Florida mining tax. Other royalties are for payments to governments associated with relevant mining activities in Brazil and the United States.

The combined 2019 contributions by The Mosaic Company, The Mosaic Company Foundation and The Mosaic Institute in Brazil provided more than \$12 million of support through companywide philanthropic grant making, the United Way campaign's dollar-for-dollar match (up to \$1,000), in-kind products and services contributions, and paid employee volunteerism, including pro bono, skills-based technical assistance and functional-specific services. Please see 203-1 and 203-2 for more information about our contributions. 2019 community investments by geography are as follows:

#### 2019 COMMUNITY INVESTMENTS BY GEOGRAPHY (U.S. DOLLARS)

GEOGRAPHY	INVESTMENT
Brazil	813,232
Canada	4,317,852
Florida	4,112,340
Global Partnerships	137,679
Louisiana	118,105
Minnesota	314,990
New Mexico	269610
United States — National	1,209,735
Villages — India	437,787
Administrative/Program	231,890
Total	\$12,166,319

Mosaic uses an online grant application system to receive and evaluate proposals for funding. By accessing the online grant application system, potential grantees have access to Mosaic's focus areas, grant making guidelines, application deadlines and our non-discrimination policy. Establishing a standardized grant making system with stated guidelines and policies online has provided greater transparency to our partners, shareholders, employees and communities. Through this system, grantees provide reports on their outcomes, enabling Mosaic to evaluate the effectiveness of each grant.

# **201-2** Financial implications and other risks and opportunities for the organization's activities due to climate change

Mosaic's "Commitment on Climate Change" acknowledges that global climate change creates uncertainty for our business and poses challenges for the health and well-being of the world's populations-ecologically, socially and economically.

The potential financial implications regarding the physical, transition and regulatory changes associated with climate change, as well as potential regulatory response changes, are discussed in Mosaic's 2019 CDP Climate Change Response and in Mosaic's 2019 10–K.

### 201-3 Defined benefit plan obligations and other retirement plans

#### **BENEFIT PLAN OBLIGATION (IN MILLIONS)**

	2015	2016	2017	2018	2019
Pension Plan Obligation	\$731.2	\$713.5	\$766.1	\$673.6	\$755.5
Fair Value of Plan Assets	\$726.7	\$715.6	\$793.2	\$701.2	\$790.6

NOTE: Please refer to the discussion of our defined benefit pension plans in our 2019 10-K.

### PENSION PLAN ASSET ALLOCATION

	ASSETS AS OF 12/31/2015	ASSETS AS OF 12/31/2016	ASSETS AS OF 12/31/2017	ASSETS AS OF 12/31/2018	ASSETS AS OF 12/31/2019
Fixed Income	95%	85%	75%	75%	80%
United States Equity Securities	2%	80%	15%	15%	9%
Non-United States Equity Securities	2%	60%	1%	1%	011%
Real Estate	0	0	0	0	0
Private Equity	1%	1%	0	0	0
Other	0	0	0	0	0
Total	100%	100%	100%	100%	100%

#### **CANADIAN PENSION PLANS**

	ASSETS AS OF 12/31/2015	ASSETS AS OF 12/31/2016	ASSETS AS OF 12/31/2017	ASSETS AS OF 12/31/2018	ASSETS AS OF 12/31/2019
Fixed Income	39%	37%	38%	66%	65%
United States Equity Securities	22%	23%	22%	9%	10%
Canadian Equity Securities	2%	23%	2%	8%	10%
Non-United States Equity Securities	15%	14%	15%	013%	14%
Private Equity	1%	1%	1%	0	0
Other	3%	2%	4%	4%	1%
Total	100%	100%	100%	100%	100%

#### **INVESTMENT PLAN AND SAVINGS PLAN (IN MILLIONS)**

	2015	2016	2017	2018	2019
Attributable Expense	\$55.1	\$51.1	\$54.3	\$51.2	\$56.4

Participation and funding target percentages for our United States and Canadian pension plans as of December 31, 2019, are as follows:

#### BENEFIT PLAN PARTICIPATION AND TARGET ATTAINMENT (as of December 31, 2019)

LOCATION	PARTICIPANTS	FUNDING ATTAINMENT
United States (Union)	3,030	99.0%
United States (Salaried)	2,660	100.4%
Colonsay (Hourly)	605	105.6%
Colonsay (Salaried)	67	106.0%
Esterhazy (Hourly)	1,375	109.20%
Esterhazy (Salaried)	199	108.9%
Brazil (Hourly)*	3,916	
Brazil (Salaried)*	1,395	

\* We have four plans in Brazil of which only one is a pension plan subject to funding requirements. This plan has 252 participants and was funded at 102.81 percent at the time of this report. The remainder of the plans are like defined contribution plans and therefore, not subject to funding requirements.

### 201-4 Financial assistance received from government

#### TAX CREDITS AND SUBSIDIES

COUNTRY	ТҮРЕ	AMOUNT
Brazil	Employee Meal and Leave Subsidies	\$813,213
Brazil	Research and Development Incentive	\$517,891
United States	Research and Development Credit	\$1,281,722
Canada	Research and Development Credit	\$3,775,455

NOTE: All figures are reported in United States dollars. As actual 2019 figures were not available at the time of reporting, these figures represent actual 2018 amounts. The Brazil and Canada figures were calculated using an average income statement exchange rate used for financial reporting purposes.

### Management Approach: Market Presence, Indirect Economic Impacts and Procurement Practices

At Mosaic, we understand that our business and our communities are indelibly linked. Our operating communities are also our homes-where we live, work and raise children. We strive to be a thoughtful and engaged neighbor, investing carefully and generously as we seek long-term partnerships with organizations that are making a difference.

Mosaic is dedicated to advancing the many ways that our business contributes to the sustainable development of the communities where we operate: investing in communities; hiring employees and contracting vendors from local communities; offering competitive wages and benefits to our workforce; and developing our future workforce.

#### **Investing in Communities**

The Mosaic Company, The Mosaic Company Foundation and The Mosaic Institute in Brazil partner with industry associations, nonprofit groups and stakeholders focused on food, water and local initiatives. We are especially committed to the strength and prosperity of the communities where we have offices and operations, including North America, South America and Asia. Our financial support is magnified by employee volunteerism and community involvement.

#### Hiring Employees and Contracting Vendors From Local Communities

As a matter of practice, and in accordance with Mosaic's global job posting policies, we will "hire from within wherever possible." In addition, Mosaic initiates and conducts its search for qualified candidates locally, before the search is broadened.

Mosaic's mining and production operations take place in communities of varying size throughout North America. Mosaic does not have a written policy for giving preference to locally-based suppliers, but we do encourage and support local suppliers of all sizes. As a global company, the vendor screening process we have in place ensures that we maintain strict ethics, quality and safety standards. In an effort to support more local suppliers, we engage them, build partnerships, and explore opportunities to build capacity. Our **Supplier Code of Conduct and Ethics** outlines the standards of business integrity to which we hold ourselves and our suppliers accountable.

#### Offering Competitive Wages and Benefits to Our Workforce

Our global talent investment philosophy is to provide competitive compensation and benefits, with flexibility to choose programs that best meet our employees' needs.

#### **Developing Our Future Workforce**

Skilled labor is a key priority in the geographies where we operate. We work with governments and institutions to help train skilled labor to develop the knowledge required to support Mosaic's future workforce.

# **202-1** Ratios of standard entry level wage by gender compared to local minimum wage at significant locations of operation

Mosaic offers competitive compensation and benefits in each of the company's significant locations of operation. As shown below in local currency, the standard entry-level wage range is higher than the prevailing local minimum wage for each location presented. For Mosaic, minimum wages are generally not relevant since the majority of entry-level Mosaic positions require a higher level of skills or knowledge than jobs to which the minimum wage rate would apply.

SIGNIFICANT OPERATIONS	LOCAL MINIMUM WAGE	MOSAIC ENTRY-LEVEL WAGES	MOSAIC ENTRY-LEVEL WAGE RELATIVE TO LOCAL MINIMUM WAGE
U.S. Range/hr (USD)	\$7.25 – \$10.00	\$15.75 – \$29.80 (hourly) \$11.59 – \$18.46 (salaried)	159%
Canada Range/hr (CAD)	\$11.32	\$31.42 – \$34.36 (hourly) \$16.59 – \$25.00 (salaried)	146%
Brazil Range/hr (BRL)	\$4.80 - \$8.15	\$5.20 – \$10.	123%
China Range/hr (CNY)	\$10.92 - \$12.64	\$23.91 – 33.33	219%
India Range/hr (INR)	\$47.75 – \$57.29	\$158.30 - 302.20	331%
Paraguay Range/hr (PGY)	\$9,967.45	\$9,986.65 - 10,946.42	105%

#### 2019 MOSAIC LOCAL MINIMUM WAGE COMPARED TO LOCAL MINIMUM WAGE

# **202-2** Proportion of senior management hired from the local community at significant locations of operation

As a matter of practice, we will hire from within wherever possible. For senior leader roles, if no internal candidates are identified, a search will be conducted externally to find the best candidate for the leader role. The hire may or may not come from one of the communities where we have a local presence. These candidates are also supported with relocation assistance.

In 2019, 100 percent of newly hired senior leaders—all ten of whom were external hires —came from local communities.

For the purpose of this indicator, "significant locations of operation" refers to United States, Canada and Brazil. "Senior leader" is defined as those individuals who are responsible for a business unit, corporate function, business unit function, country or operations site; "local community" is defined as the country where our operations are located. "Senior leaders" represent less than 3 percent of our total workforce.

### 203-1 Development and impact of infrastructure investments and services supported

Livable communities require stable infrastructure and connectivity. As part of our community investment focus on local communities, Mosaic responds to community needs for welcoming public spaces, hospitals and emergency services, and entertainment and sports facilities that bring additional revenue to local economies. Our investments in this category in 2019 totaled approximately \$4.2 million. Here are examples of some of our recent community investments in infrastructure.

#### Florida

- Mosaic made a \$55,000 grant to Lakeland Habitat for Humanity to support construction and development of Fleming Platoon in Mulberry, Florida. Opening in late 2020, Fleming Platoon is a rent-free planned community, consisting of 30 small cottages. The homes are specifically designed for veterans 55 and over, who have limited incomes and are unable to make necessary repairs to their own homes. The entrance to the community will be lined with American flags and named the Mosaic Honor Walk.
- The Mosaic Company Foundation made a \$500,000 grant to Meals on Wheels of Tampa to support their More-Than-A-Meal capital campaign to build a new LEED Silver certified facility. Slated to open in 2020, the new building will nearly double in size – from 4,670 square feet to over 8,000 — and allow the organization to increase services from 1,350 to 3,000 meals a day to seniors and homebound neighbors.

### Canada

- Mosaic made a \$100,000 grant to Carmichael Outreach to support construction of a full commercial kitchen in their new building on 12th Avenue. The new kitchen will allow Carmichael to serve meals indoors, as opposed to operating as a take-out kitchen for years prior. This new space will also provide Carmichael an opportunity to run their nutrition courses more efficiently, providing patrons with the skills and knowledge needed to prepare healthy, affordable meals on their own.
- Souls Harbour Rescue Mission received a \$150,000 grant to help build a dining hall in the new building on Angus Street. The space allows the organization to serve twice the number of people and doubles as a men's shelter each evening, doubling the capacity of their previous shelter from 12 to 24 spaces.
- In 2019, we invested over \$100,000 in infrastructure projects benefiting local First Nation communities. Mosaic supported water treatment plants, playgrounds and splash parks, and school renovations as part of our commitment to supporting the communities that near our operations.

#### India

 Mosaic's Krishi Jyoti project aims to improve livelihoods in villages in rural India by enhancing farm productivity. In partnership with the project's implementing partner, The Sehgal Foundation, eleven check dams have been constructed since 2008, increasing water storage capacity to 38.6 million gallons. The project also promotes education among children in these remote villages by providing them a healthy and safe school environment. Krishi Jyoti has supported the renovation of 24 government schools in the project villages, benefiting nearly 5,000 children.
 2019 marked Mosaic's eleventh year participating in the Krishi Jyoti project.

#### Brazil

• The Mosaic Institute recognizes the important contributions of public spaces and social centers to a community's wellbeing and invests in them locally. In 2019, The Mosaic Institute Brazil invested more than \$800,000 in the areas of food, water, education and social development, helping fund projects like the construction of a school library in Candeias.

In 2019, combined contributions by The Mosaic Company, The Mosaic Company Foundation and The Mosaic Institute in Brazil through philanthropic funding, employee engagement and in-kind donations totaled approximately \$12 million. View our global and local community investments on **Mosaic's Giving Map**.

### 203-2 Significant indirect economic impacts, including the extent of impacts

Mosaic has diverse and varied indirect economic effects on communities across the world as an employer, community partner, taxpayer, and consumer of goods and services. Due to the complex nature of the business and philanthropic activities in which Mosaic engages, we do not attempt to estimate our full indirect economic impact by using a measurement of currency. Here are some of the ways Mosaic contributes indirectly to economies around the globe:

- Our customers, dealers, and vendors are all meaningful contributors to the economic vitality of the rural and regional communities where they operate. They provide employment, purchase goods and services, and pay taxes in their own communities. A 2020 economic study by The Fertilizer Institute estimates that the United States fertilizer industry contributes \$131 billion to the United States economy. The study goes on to estimate that fertilizer producers, wholesalers and retailers, and the businesses that serve them, support nearly 400,000 United States jobs.
- Located in Tampa, Florida, The Florida Aquarium receives more than 800,000 visitors each year. Approximately six to eight times a year, Mosaic barges returning from Louisiana collect sea water from the Gulf of Mexico and deliver this vital resource to the aquarium, which helps support over 8,000 animals and plants.
- Libraries connect people to their community by promoting an atmosphere of public collaboration. Mosaic provided a \$40,000 grant to Friends of the Library of Tampa, Hillsborough County to build a café space in the new Riverview Public Library to support the Library's educational initiatives. Located near the Library's main entrance, the café will incorporate furniture that uses natural elements and recycled/recyclable materials. Additionally, a projected 250,000 visitors annually will view an educational multimedia display that will increase the community's understanding of the history of agriculture in Hillsborough County, the impact of sustainable practices on the environment, and Mosaic's contributions in these areas.
- The Mosaic Villages Project works with smallholder farmers in India to help break the cycle of poverty, moving farmers from survival to surplus. Agronomic training is essential for these farmers, as they suffer from depleted soils and lack the land-management knowledge necessary to farm productively and sustainably. Mosaic's agronomists provide expertise to teach these farmers modern methods that increase yields and protect the local ecosystem. Additionally, participants in The Mosaic Villages Project in India receive no-interest loans to buy fertilizer at time of planting and repay the loans through the sale of surplus yield at harvest. Fertilizer acts as an injection of capital to the region, helping farmers break the cycle of poverty that has gripped developing regions of the world. This project has benefited 85 villages and over 60,000 farmers with average 18-35% crop yield increases in Wheat, Mustard, Millet and Cotton.

Building off the success of the Mosaic Villages Project success in India, The Mosaic Foundation launched Villages Brazil in 2019, which will support 20 small farmers in Barreiras, state of Bahia.

- In Brazil and Paraguay, The Mosaic Institute recognized World Food Day by organizing a Hunger Action Month. As part of the month's activities, teams organized food collection and distribution events that served socially vulnerable families near our operations and public schools in nearby communities. Over 190 tons of food were donated and the efforts had positive impacts for 18,000 individuals. We also offered trainings to lunchroom employees at 32 schools in Capela and Rosário do Catete, in the state of Sergipe, to promote healthy food habits and food safety. Mosaic created gardens in 15 of these schools that provide vegetables and fruits for lunch meals. Excess produce is donated to nearby schools.
- The Mosaic Institute in Brazil also implemented programs to improve basic education, including promoting literacy and independent reading and refurbishing or supporting construction of public schools. In 2019 we constructed one library in Candeias, state of Bahia. We also trained 350 teachers in 200 schools in a program that benefited 4,800 students.

### **Category: Economic**

- The Mosaic Institute in Brazil also promoted programs for local development. For example, we funded a Social Entrepreneurship program, developed in Cajati, state of São Paulo, that supports efforts to build entrepreneurial capacity for local businesses. We also provided funding for an initiative in Tapira, Minas Gerais, that helps communities expand economic opportunities and reduce reliance on the mining industry.
- In Brazil, we established a social bidding initiative that provides funding for projects that promote water stewardship. In 2019, nine projects were selected to receive funding and as a result, Mosaic earned recognition for from the United Nations Global Compact related to our actions toward SDG 6: Clean Water and Sanitation.
- Many of Mosaic's community investments are focused on supporting hunger relief in communities and providing access to emergency food systems. Studies show that children who have sustained hunger have reduced abilities and capacity to learn in school. Access to regular food improves educational outcomes. Through work with the United Way and other local charities, Mosaic's community investments help families achieve greater economic independence and improve educational outcomes for children.
- In Saskatchewan, Mosaic committed \$375,000 over 3 years to Regina Education and Action on Child Hunger (REACH) in support of: community kitchens, nutrition and cooking classes, the Mosaic-branded van for delivery of the Mobile Markets. All of this allows families to be self-sufficient by meeting both dietary and financial needs through non-emergency sources. This impacts over 12,000 individuals per year, over half of which are children.

Additionally, many of Mosaic's partnerships with community organizations continue to support positive healthcare, education, housing and recreational opportunities for our neighbors. Please see **203-1** and **Mosaic's Giving Map** for more information.

### **204-1** Proportion of spending on local suppliers at significant locations of information

We report on purchases from local suppliers in the United States, Canada and Brazil. For the purposes of this indicator, operations in these areas are considered "significant" since they are in key geographies where our mining and chemical manufacturing, and as a result, most of our supply chain activities, take place.

### LOCAL SUPPLY CHAIN (PERCENT)

OPERATIONAL LOCATIONS	2019
Phosphate (United States)	87
Phosphate (Peru)	97
Potash (Canada and United States)	63
Mosaic Fertilizantes	99

NOTE: Excludes governmental, raw materials, clubs and organizations, employeerelated and freight and warehouse expenditures. Includes as locals in the Phosphates segment all vendors with addresses in Louisiana and Florida, and in the Potash segment all vendors with addresses in New Mexico, Saskatchewan and Manitoba. Phosphate Peru spend categories exclude raw materials, diesel, potable water and power and defines local as all vendors in Peru. Mosaic Fertilizantes spend categories include indirect expenditures and logistics. Figures include all vendors with addresses within the country of operations.

### **Category: Economic**

### Management Approach: Anti-corruption and Anti-competitive Behavior

Mosaic operates in a regulated industry and in areas throughout the world with varying degrees of perceived corruption. Mosaic also has routine interactions with foreign government officials and agencies related to obtaining licenses and approvals, customs, land use and other matters. The risk of corrupt practices exists in the countries where we operate as government officials and agencies are inherently involved in the production, sale, and distribution of our fertilizer products through the related laws and regulations governing these activities.

Mosaic must comply with all applicable laws of the United States, and all other countries in which we do business, that are designed to prevent bribery and corruption. Our **Code of Business Conduct and Ethics** demands compliance from our employees and requires any employees who have been assigned a company computer user ID-which is more than 5,200 employees—to complete online code of conduct training and certify compliance with the code annually. In 2019, 95% of salaried employees completed the Code of Conduct certification.

Mosaic also maintains a 24-hour independently administered confidential and anonymous incident reporting hotline for all Mosaic employees. In addition, our company conducts a robust risk assessment to identify risks related to the U.S. Foreign Corrupt Practices Act (FCPA). A robust fraud risk assessment is also completed in the Sarbanes-Oxley compliance efforts.

We recognize the significance of the FCPA and have established a **Worldwide Anti-corruption Policy**. We conduct periodic FCPA audits of selected various geographic locations and respective individuals – including but not limited to: country managers, sales representatives, accounting/finance personnel and supply chain – whose job responsibilities require a keen awareness of and compliance with the FCPA.

### **205-1** Total number and percentage of operations assessed for risks related to corruption and the significant risks identified

During 2019, Mosaic reviewed the following pervasive elements of our anticorruption program: Tone at the Top, Policies and Procedures, and Training, to provide assurance that Mosaic is taking the appropriate measures to mitigate the risk of an employee or representative (third parties) engaging in activities that may violate FCPA or other anticorruption laws or regulations. These reviews were conducted for all our operating segments (Potash, Phosphates and Mosaic Fertilizantes). In addition, Mosaic performed audit procedures at the Company's operations in China, and, at the Canpotex joint venture.

Transparency International's Corruption Perception Index ranks 180 countries and territories by their perceived levels of public sector corruption. We do not have production facilities in any of the 20 countries with the lowest ranking.

### **Category: Economic**

### 205-2 Communication and training on anti-corruption policies and procedures

Mosaic requires all salaried employees (which includes all management employees) to complete the online Foreign Corrupt Practices Act (FCPA) training. In addition to the online training, instructor-led training is also provided to certain employees based on their location and job responsibilities. As part of our Code of Business Conduct and Ethics (the "Code of Conduct") certification process, which is required annually of all salaried employees, employees are specifically asked to certify as to their compliance with the FCPA in the past year. Most recently, the 2018 Code of Conduct certification, completed in early 2019, had a 95 percent completion rate. View **404-1** for more information.

Board members receive the Code of Conduct training and are recertified annually, most recently with a 100 percent completion rate in 2019.

Regarding business partners, Mosaic's service agreements generally require suppliers to agree to follow the Mosaic Code of Conduct, a section of which addresses preventing bribery and corruption. The **Supplier Code of Business Conduct and Ethics** states that suppliers adhere to the same level as required by Mosaic employees.

Mosaic's purchasing policy requires suppliers to acknowledge Mosaic's Code of Conduct biannually in writing. Mosaic's **Worldwide Anti-corruption Policy** and **Code of Business Conduct and Ethics** are both publicly available on our **website**.

### 205-3 Confirmed incidents of corruption and actions taken

In 2019 there were two incidents of corruption, in which gifts were solicited or offered in exchange for preferential treatment. In one of those incidents, the employee was dismissed. In the other incident, a relationship with a business partner was terminated. There were no public legal cases brought against Mosaic or its employees in 2019.

### **206-1** Total number of legal actions for anti-competitive behavior, anti-trust, and monopoly practices and their outcomes

In 2019, there were no legal actions for anti-competitive behavior, anti-trust or monopoly practices.

### **Management Approach: Materials**

In line with Mosaic's **principle** of responsibility, we strive to be good stewards of natural resources, using them as efficiently as possible.

We use various mineral resources and materials to make our crop nutrition products. For example, limestone is used to produce our animal feed products and for water treatment. Sulfur, a byproduct of crude oil and natural gas de- sulfurization, is used to produce steam, electricity and sulfuric acid, which is used to produce phosphoric acid. We use byproduct heat from sulfuric acid production to generate steam that we use in our operations and to generate electricity. Sulfur is also used in the production of our MicroEssentials® product line. Various micronutrients, including, zinc and sulfur, are key ingredients in our MicroEssentials product line. Ammonia is used in our finished products, diammonium phosphate (DAP), monoammonium phosphate (MAP) and MicroEssentials, and to neutralize the pH of the stack gases at our Esterhazy potash mine.

Coproduct and byproduct materials that are generated during the extraction and beneficiation of potash and phosphate are addressed in the waste section of this report. Mosaic strives to improve recovery and reuse of its wastes in Brazil, where the regulatory construct is more supportive of reuse of products such as phosphogypsum, a byproduct of the phosphate manufacturing process.

Mosaic products, predominantly fertilizer and animal feed ingredients, are used in agricultural operations. To the extent possible, bulk transport is used to minimize the need for extensive packaging - and therefore packaging waste - throughout the supply chain. Mosaic supports and helps promote The Fertilizer Institute's (TFI) Bulk Blend Workshops and Manual, which eliminates the need for packaging of major raw materials or the final product.

### 301-1 Materials used by weight or volume

### MATERIALS MINED OR CONSUMED (MILLION TONNES)

	,
MATERIALS	2019
Ammonia	1.30
Limestone	0.48
Phosphate Rock	19.1
Potash Ore	32.96
Sulfur (Long Ton)	4.49

### 301-2 Percentage of materials used that are recycled input materials

Sulfur is the most significant recycled raw material in our manufacturing processes. The sulfur used is recovered from crude oil and natural gas processing and then recycled in our plant operations to produce sulfuric acid, which we use to make phosphoric acid, steam and electricity. Our use of this product prevents an excess of sulfur that otherwise could be disposed of in landfills. In 2019, sulfur made up approximately 2 percent by weight of our total raw materials.

### **301-3** Percentage of products sold and their packaging materials that are reclaimed by category

Mosaic products, predominantly fertilizer and animal feed ingredients, are used in agricultural operations. To the extent possible, bulk transport is used to minimize the need for extensive packaging throughout the supply chain. Mosaic supports and helps promote The Fertilizer Institute's (TFI) Bulk Blend Workshops and Manual, which eliminates the need for packaging of major raw materials or the final product. In any given year, approximately 75 percent of the sales volumes (tonnes) from our business are sold in bulk.

# Management Approach: Water, Energy, Emissions, Biodiversity, Effluents and Waste and Environmental Compliance

Respect for the natural environment is essential to the sustainability of our business. From our potash mines in Saskatchewan to our Florida phosphate operations and mining, manufacturing and distribution facilities in Brazil, we strive to optimize our production processes and reduce our environmental impact.

Our management of water, energy and greenhouse gas emissions and waste is guided by our **Environmental, Health and Safety Policy** and commitment to the United Nations Global Compact. Our sustainability targets, progress toward which we report annually, help focus our efforts and track our progress on these key issues.

We support a variety of formal and informal Mosaic channels through which stakeholders can submit concerns. Beyond outreach directly to Mosaic, the public has an opportunity to comment on state or federal rules and permits through Public Notice and formal comment periods. Please see **413-1** for more information.

### Water

We recognize that water is a critical natural resource that is essential to the sustainability of our operations, as well as the communities and ecosystems in which we operate. In our direct operations, we consume significant volumes of water in the mining and production of our phosphate and potash crop nutrient products. The primary sources of water for our operations are surface water; rainwater captured within the footprint of our facilities; and groundwater. Our facilities monitor and evaluate water use to confirm it is minimized, and water recycling and reuse are being maximized. Secondary sources of water include water supplied by local authorities and partially treated industrial and domestic reclaimed water, also supplied by local authorities. Surface water withdrawals include once-through cooling water used by our Louisiana operations and sea water used at our Miski Mayo phosphate joint venture in Peru.

Discharges from Mosaic's Florida and Louisiana phosphate operations to downstream water bodies are highly regulated through federal National Pollutant Discharge Elimination System (permits that are administered by the Florida Department of Environmental Protection (FDEP) and Louisiana Department of Environmental Quality (LDEQ)). Discharges are monitored, sampled and analyzed regularly by Mosaic, with reports provided to regulatory agencies to demonstrate compliance with permit limitations. The limitations are based on the water quality standards that protect the designated uses of the receiving water body. Mosaic's Saskatchewan facilities maintain a "zero- discharge" approach. When the discharge of freshwater is warranted following a high precipitation event, it is approved in advance by multiple regulatory agencies.

As it relates to the use of our products, crop nutrient products like those Mosaic manufactures have the potential to run off farmland and into waterways, which can contribute to impaired water quality.

By preserving the quality of water, minimizing our own water use, and supporting and promoting agricultural practices that achieve the crop yield benefits of fertilizer while reducing nutrient losses to the environment, we are reducing the environmental impact of fertilizers on the global food supply.

Broadly, our water stewardship efforts are focused on:

- Preserving and maintaining the quality of the water resources we use in the communities where we operate;
- · Maximizing water recycling and reuse;
- · Monitoring and evaluating our water use and driving facility-level conservation efforts;
- · Developing partnerships with industry and government to use alternative water sources;
- · Reporting performance and communicating with stakeholders;
- Promoting the 4R Nutrient Stewardship framework to minimize the impact of crop nutrients on waterways

### **Energy and Emissions**

Fertilizer production is an energy-intensive activity. We use energy and generate direct and indirect greenhouse gas emissions in the mining, production, distribution and use of our phosphate and potash crop nutrient products. Since our company's formation in 2004, we have invested in initiatives aimed at reducing energy use and emissions— efforts that have resulted in operating cost savings and improvements in environmental performance. By improving the efficiency of our operations and promoting sustainable agricultural practices, we are adapting to the potential threats of climate change and reducing the environmental impact of fertilizers on the global food supply.

Our approach to managing energy and greenhouse gas emissions includes:

- Emphasizing operating efficiency
- · Maximizing generation of electricity produced from waste heat at our phosphate manufacturing facilities
- · Investing in energy-efficient technologies and evaluating alternative energy sources
- Leveraging our agronomic expertise to promote efficiencies in agricultural systems, which have the potential to enhance customers' productivity
- Advocating for balanced clean energy policy that encourages the generation and consumption of existing, low-cost resources, such as waste heat recovery
- · Reporting our energy and GHG performance and communicating with stakeholders

### **Biodiversity**

Protection of biodiversity is critical to global sustainable development and a significant component of Mosaic's sustainability efforts. In both our phosphate and potash operations in the United States, Canada and Brazil, prior to the start of mining - or when extending or expanding a mine - permits are secured from local, regional, state and federal government agencies. This exhaustive planning and approval process protects water, air, ecology, wildlife, transportation, safety and other environmental, health, and public welfare considerations.

We work with multiple parties to evaluate ecological resource preservation opportunities and to avoid and minimize any harm to state and federally protected wildlife species found on mine properties.

Phosphate mining represents a temporary disturbance of ecological resources. Once mining is complete, we conduct acre-for-acre **reclamation** and return mined lands to productive uses for wildlife and people. To promote biodiversity, Mosaic may introduce certain species into reclaimed lands, such as the gopher tortoise, that may have previously resided on the parcel but moved prior to mining. All introductions and relocations of protected species are conducted in accordance with federal and state requirements and guidelines. Phosphates and potash operations' interaction with wildlife in the United States is regulated by state and federal agencies such as the Florida Fish and Wildlife Conservation Commission and the United States Fish and Wildlife Service (USFWS). These agencies maintain lists of protected species for which Mosaic develops species-specific habitat management plans for the proper protection measures are in place. Protection of these species is also reviewed and approved through the Federal, State and local permitting processes for our Florida phosphate mines.

In our potash facilities located in Saskatchewan, Canada, our approach to evaluating potential impacts to wildlife includes biological assessments for projects located in new or expanded footprint areas. Since potash mining is underground, such impacts are rare once a facility is in operation. Assessments include field surveys to identify rare species of plants, birds, mammals, reptiles and amphibians of special concern that may be impacted. Survey methods follow the recommendations of the provincial and federal agencies. Biological assessments for all expansion areas at the potash facilities followed this approach.

We work closely with regulators as to comply with all applicable regulations and agency-approved management plans and to fund and/or conduct research that promotes the goal of wildlife and habitat conservation.

### Waste

Large quantities of byproduct materials generated as a result of mining and processing of potash and phosphate - referred to in this report as "mining wastes" are managed during the operation of a facility, and upon its closure. We apply industry best practices to manage and reuse overburden, tailings and byproducts associated with our mining and production practices. Potash tailings, consisting primarily of salt and clay, are stored in tailings management areas. A portion of the excess salt generated from potash mining is processed and then used for commercial purposes, including road salt, water softener salt, and use in food grade products and industrial uses. Phosphate clay residuals from mining are deposited in clay settling areas (CSAs) located within the approved mine boundaries. These CSAs are eventually dewatered and reclaimed. Overburden and sand tailings produced at our phosphate manufacturing process, is managed in permitted phosphogypsum management systems ("gypstacks") in the United States.

In Brazil some phosphogypsum is stacked, whereas the remainder is sold to third parties for use in agricultural and industrial applications. In 2019, we sold approximately 80% of the total volume of phosphogypsum generated at the Cajati and Uberaba facilities. We store the process water that separates from phosphogypsum during the dewatering process in gypstacks. We are subject to federal, state and local regulations related to these materials.

Certain solid wastes generated by our phosphates operations in the United States are subject to regulation under the Resource Conservation and Recovery Act (RCRA) and related state laws. The Environmental Protection Agency (EPA) rules exempt "extraction" and "beneficiation" wastes, as well as 20 specified "mineral processing" wastes, from the hazardous waste management requirements of the RCRA. Accordingly, certain residual materials like phosphogypsum, as well as process wastewater from phosphoric acid production, are exempt from RCRA's hazardous waste regulations. Phosphogypsum and process wastewater nonetheless still are subject to extensive regulation.

Mosaic's operations generate a variety of nonhazardous solid wastes, including domestic refuse, construction and demolition debris, and waste lubricants. Our waste management program provides assurance that all of our locations have a process in place to minimize waste generation and that waste management practices do not adversely affect the environment or health and safety of employees and the public.

We endeavor to choose on-site process chemicals that are the least hazardous, thereby seeking to lower risk to occupational health and safety and minimizing waste management implications. Mosaic facilities generate hazardous waste during production and maintenance operations. The types of hazardous solid waste generated at Mosaic's United States facilities typically include spent cleaning solvents, paint-related wastes and some spent laboratory chemicals. At concentrate facilities, wastes generated during production and maintenance operations include waste that is characteristically hazardous for corrosivity and/or toxicity (e.g., low pH and/or metals content). Each location has an appropriate hazardous waste management system to ensure that the waste is properly and safely disposed. No hazardous wastes are shipped internationally for disposal.

We continue to improve our comprehensive waste management strategy, accounting for federal, state and local requirements and to align it to the Mosaic environmental health and safety management system.

### **Environmental Compliance**

We support a variety of formal and informal Mosaic channels through which stakeholders can submit concerns. Please see **413-1** for more information.

### 303-1 Total water withdrawal by source

#### GLOBAL WATER WITHDRAWALS (,000m3)

	2015	2016	2017	2018*	2019
Groundwater	68,270	65,085	78,846	72,847	70,843
Municipal	730	914	7,050	1,296	1,003
Reclaimed (third party) Water	7,515	9,247	9,249	9,888	8,642
Surface Water	224,168	233,512	232,393	301,441	218,550
Total	300,683	308,758	327,538	385,471	299,038

Note: Reclaimed (third party) water includes waste water sources from industry or municipalities. We use reclaimed water as alternative source water to offset reliance on freshwater sources. Surface water includes once-through cooling used at our Uncle Sam, Louisiana facility, and seawater used at our Miski Mayo joint venture in Peru. \*2018 Reclaimed water has been restated because of a data error. 2018 surface water value has been restated to include seawater from our Miski Mayo joint venture. Please see our discussion of freshwater intensity for our year-over-year performance toward our freshwater reduction target.

One Mosaic facility — our Miski Mayo joint venture in Peru — is located in a basin considered to be in high or extremely high water stress according to the World Resources Institute Aqueduct Water Risk Atlas tool. However, this facility operates almost exclusively on seawater, which undergoes a process of desalination before it is used. Actual groundwater withdrawals from this facility represent less than 1% of Mosaic's total groundwater withdrawals.

In alignment with our **Sustainability Targets**, we have modified our water intensity reporting to reflect a freshwater intensity measurement. In setting a water target, our intent is to drive water efficiency improvements across our business and to increase the use of alternative sources. Mosaic's freshwater withdrawals per tonne of dry product crop nutrient and animal feed production are as shown below:

### FRESHWATER INTENSITY (m<sup>3</sup>/TONNE)

	2015	2016	2017	2018	2019
Mosaic legacy <sup>1</sup>	4.86	4.76	4.85	4.52	4.85
Mosaic companywide <sup>2</sup>				6.69	6.66

NOTE: <sup>1</sup>Mosaic Legacy figures do not include recently acquired Mosaic Fertilizantes facilities in Brazil since they were not part of the original target setting process. <sup>2</sup>Companywide freshwater intensity includes acquired facilities. For withdrawals and total intensity broken down by business segment, please see our **2019 Environment Metrics Supplement**.

### 303-2 Water sources significantly affected by withdrawal of water

All of Mosaic's operations operate using recycled or reused water when possible to minimize reliance on freshwater resources.

Our Central Florida operations use captured rainfall as an "alternative water supply." Groundwater use is heavily regulated and is used by Mosaic to supplement captured rainfall. Local regulations promote the use of available alternative water supplies, such as reclaimed water from municipalities, before groundwater use. Mosaic Florida sites received reclaimed water from six municipal waste water treatment plants in 2019 at an average rate of 6.1 million gallons per day (MGD). Mosaic Florida Phosphates operations do not withdraw water from nationally or internationally protected surface water sources. However, Mosaic has two withdrawal points from springs: Lithia Springs and Buckhorn Springs. This water is used at Mosaic's Riverview facility. In 2019, an average of 3.1 million gallons per day (MGD) was pumped from Lithia Springs and approximately 0.18 MGD from Buckhorn Springs, representing approximately 8 percent of the annual average spring flow for these springs. Although the state of Florida has over 700 springs, 30 of which have been designated as Outstanding Florida spring sand are afforded extra protection, neither Lithia nor Buckhorn Springs are on the Outstanding Florida spring list. Nonetheless, Lithia Springs is a valuable recreational asset to the local community. Mosaic and its predecessors have leased Lithia Springs as a 160-acre recreational park to Hillsborough County since 1957.

In the Potash business, water use, including source and allocated volumes, are subject to site-specific regulations and permits. Water used in the operations process is recycled or reused, when possible. Our Saskatchewan potash operations withdraw from provincially regulated surface water and groundwater sources. Many of these sources also provide drinking water for nearby communities, and the surface water sources, including Cutarm Creek, Buffalo Pound Lake and Zelma Reservoir, are also used for recreational purposes. None of these sources are designated as national or international conservation areas.

The Mosaic Fertilizantes business does not withdraw from nationally or internationally protected water sources, though some facilities are located near water bodies or regions that have significant biodiversity value. For example, our Cajati mine is located approximately 15-20 km from a Ramsar-listed protected area in the states of Sao Paulo and Parana that contains diverse landscape and animal and aquatic environments. No withdrawals happen from water bodies within this protected area, but we do withdraw water from the Jacupiranguinha River, which is an important natural resource for the region and local community since it is home to endemic species and serves as a source of public water supply for the community. Some of our facilities withdraw from sources in or near communities that are also used for drinking water or recreational purposes. All our facilities are heavily regulated and subject to facility-specific regulations, monitoring requirements and permits relating to water source and allocations.

Please see **303-1** and **303-3** for additional context.

### 303-3 Total volume of water recycled and reused

Figures are based on total water used by facility, less freshwater withdrawals.

### RECYCLE AND REUSE VOLUME (,000m3)

BUSINESS SEGMENT	RECYCLE AND REUSE VOLUME
Phosphates	858,939
Potash	177,877
Mosaic Fertilizantes	526,709

NOTE: Carlsbad, N.M., South Pierce, Fla., and Faustina and Uncle Sam, La., are not included in respective business calculations. Belle Plaine is a solution mine and therefore, water use and methodology for recycle/ reuse rate differs from shaft mining operations. However, recycled volumes from that facility are included in the totals for Potash. Legacy Brazil facilities historically reported under International Distribution segment are now reported under Mosaic Fertilizantes segment.

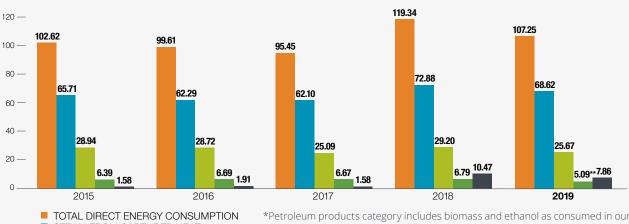
### 302-1 Energy consumption within the organization

Companywide, our direct and indirect energy use totaled 120.01 million gigajoules (GJ) in 2019.

Our total direct energy consumption in 2019 was 107.25 million GJ.

### **Direct Energy Consumption by Source**

Approximately 88 percent of Mosaic's worldwide total direct energy consumption in 2019 was from two sources: waste heat from sulfuric acid production and natural gas. The remaining portion was made up of petroleum products and propane.

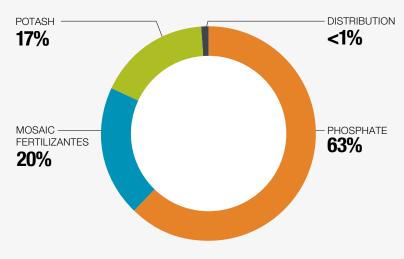


### TOTAL DIRECT ENERGY CONSUMPTION BY SOURCE (MILLION GJ)

 TOTAL DIRECT ENERGY CONSUMPTION
 STEAM FROM CAPTURED HEAT
 NATURAL GAS
 COGENERATED ELECTRICITY
 PETROLEUM PRODUCTS\*
 \*Petroleum products category includes biomass and ethanol as consumed in our Mosaic Fertilizantes business. \*\*We are revising our direct energy calculation to align with GRI standard for this indicator. Moving forward, it will exclude cogenerated electricity from our Belle Plaine, Saskatchewan facility, which produces cogenerated electricity in a process using natural gas. The quantity of natural gas used to create 1.15 million GJ of power at Belle Plaine in 2019 is included in companywide natural gas totals. The remaining cogenerated electricity includes power generated from waste heat from the sulfuric acid manufacturing process in our Florida, Louisiana and Brazil phosphate operations.

In 2019, our North America phosphates operations used a portion of steam energy from the sulfuric acid manufacturing process to produce 5.5 million GJ of electricity through a process called cogeneration, approximately 85 percent, or 4.4 million GJ, of which was used internally at our plants and mines. We consider the waste heat from sulfuric acid production to be a direct primary energy source for our North America phosphate operations. We exported approximately 800,000 GJ of power to the local utility grid in North America in 2019. Three of our recently acquired Brazil facilities used a similar process to harness waste heat from the sulfuric acid manufacturing process, resulting in generation of approximately 317,000 GJ of energy for use at their operations. In 2019 our Brazil operations sent approximately 2,000 GJ of electricity to the utility grid.

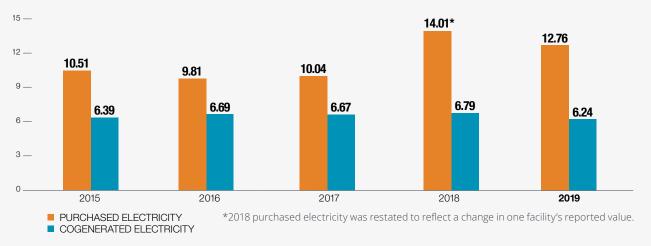
Mosaic looks for opportunities to improve the efficiency and expand the electricity output of our cogeneration assets. Mosaic could have additional opportunities for harnessing emissions-free power under a more supportive regulatory construct. We advocate for a balanced renewable energy policy that incentivizes and expands the generation and consumption of existing, low-cost renewables, such as waste heat recovery, and promotes fairer pricing for third-party renewable producers when selling power back to the electrical grid.

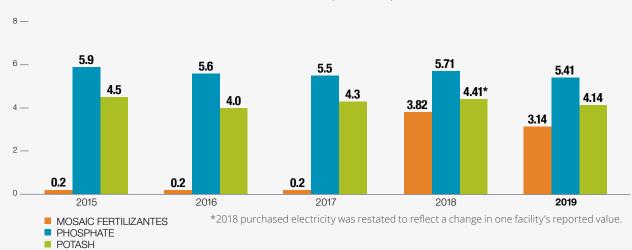


### DIRECT ENERGY CONSUMPTION BY BUSINESS SEGMENT 2019 (%)

NOTE: The Phosphates and Mosaic Fertilizantes businesses use a significant amount of waste heat energy from the sulfuric acid manufacturing process, which is accounted for here. Distribution facilities accounted for less than 1% of companywide direct energy use.

### INDIRECT ENERGY CONSUMPTION BY PRIMARY ENERGY SOURCE (MILLION GJ)

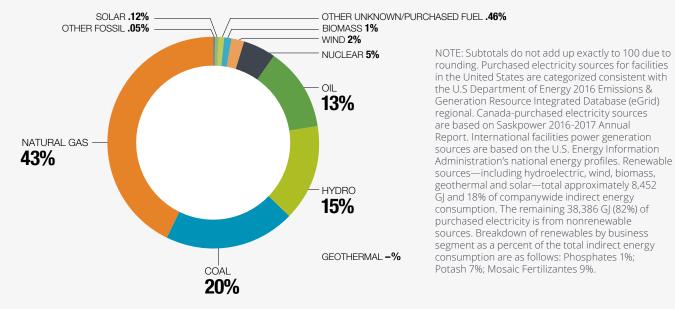




#### INDIRECT ENERGY CONSUMPTION BY BUSINESS SEGMENT (MILLION GJ)

### Indirect Energy Consumption by Fuel Source

Approximately 18 percent of Mosaic's worldwide indirect energy consumption from purchased electricity is from renewable sources, including hydroelectric, biomass sources and wind power.



### INDIRECT ENERGY CONSUMPTION BY GENERATION SOURCE (PERCENT)

### 302-3 Energy intensity

#### DIRECT AND INDIRECT ENERGY INTENSITY (GJ/TONNE)

	2015	2016	2017	2018	2019
Mosaic legacy <sup>1</sup>	2.60	2.68	2.31	2.47	2.39
Mosaic companywide <sup>2</sup>				2.83	2.60

NOTE: <sup>1</sup>Mosaic Legacy figures do not include recently acquired Mosaic Fertilizantes facilities in Brazil since they were not part of the original energy target setting process. <sup>2</sup>Companywide energy intensity includes acquired facilities. For intensity broken down by business, please see our **2019 Environment Metrics Supplement**.

### 302-4 Reduction in energy consumption

Our energy improvement and sustainability process is part of a broader strategic business plan designed to help Mosaic reduce greenhouse gas emissions and meet or exceed efficiency, production and profitability requirements. This plan includes strategies for lowering purchased energy consumption through more efficient processes and maximizing use of cogenerated energy.

We also emphasize energy efficiency in our office facilities. Mosaic's Florida headquarters in FishHawk was designed and constructed to Leadership in Energy & Environmental Design (LEED) standards and maintains its ENERGY STAR certification. Mosaic's leased Regina, Canada, offices were built to LEED standards and included the purchase of interior design elements, furniture and products, as well as other energy efficiencies associated with LEED. The Regina office was LEED certified in 2017. Similarly, Mosaic's Colonsay mill dry building in Saskatchewan was designed and constructed according to LEED standards. The LEED certification process for this building is underway.

In 2019 we completed behavioral change, energy efficiency, fuel switch and process optimization projects that resulted in energy savings of more than 200,000 GJ.

### 305-1 Direct GHG emissions (Scope 1) 305-2 Indirect GHG emissions (Scope 2)

WORLDWIDE GHG EMISSIONS (MILLION TONNES CO.e)

	-2-7				
BUSINESS SEGMENT/EMISSION TYPE	2015	2016	2017	2018	2019
Phosphates	2.83	2.69	2.3	2.56	2.29
Direct Emissions	1.97	1.92	1.5	1.87	1.67
Indirect Emissions	0.86	0.76	0.81	0.69	0.62
Potash	1.90	1.80	1.81	1.83	1.66
Direct Emissions	0.95	0.97	0.90	0.93	0.91
Indirect Emissions	0.95	0.83	0.91	0.90	0.74
Mosaic Fertilizantes	0.05	0.07	0.05	0.88	0.63
Direct Emissions	0.04	0.04	0.03	0.78	0.56
Indirect Emissions	0.01	0.01	0.01	0.10	0.08
Emissions from Biofuels (CO <sub>2</sub> )				0.18	0.16
Distribution	0.01	0.03	0.02	0.01	0.01
Direct Emissions	0.00*	0.02	0.00*	0.00*	0.00*
Indirect Emissions	0.01	0.01	0.01	0.01	0.01
Total Direct Emissions				3.58	3.13
Total Indirect Emissions				1.69	1.45
Total Emissions	4.78	4.56	4.17	5.28	4.58

Figures higher due to inclusion of recently acquired Mosaic Fertilizantes facilities in Brazil. Legacy Brazil facilities previously reported under International Distribution segment are now reported under Mosaic Fertilizantes segment. Distribution, as reported here, represents Streamsong Resort and Mosaic-owned facilities involved in warehousing, blending and/or shipping Mosaic's products. Totals marked with an asterisk are less than 0.01 million tonnes. Direct emissions include Mosaic's consumption of natural gas, diesel, other fuels, process related activities, water treatment and refrigerants. Indirect emissions include electricity purchased from third-party utilities. The Mosaic Fertilizantes business consumes biomass and ethanol as fuel alternatives. Per the GHG Protocol, we are adding a line item to account for CO2 emissions from biomass. N2O and CH4 are represented within the direct emissions totals. Mosaic uses guidance from the CDP for calculating and reporting carbon dioxide equivalence (CO2e). Subtotals may not always add up to totals due to rounding. Please see Mosaic's CDP Climate Change response for more information on our GHG emissions performance.

### 305-3 Other indirect GHG emissions (Scope 3)

#### OTHER INDIRECT GHG EMISSIONS (MILLION TONNES CO.e)

	4				
EMISSION SOURCE	2015	2016	2017	2018	2019
Ammonia Purchase	2.31	2.63	2.14	2.29	2.59
Truck Transport (Florida)	0.03	0.04	0.04	0.05	0.04
Rail Transport (Florida, Canada and Brazil)	0.01	0.03	0.06	0.11*	0.65
Business Travel	4,328	2,777	2,873	3,294	3,868
Marine Transport	0.2	0.25	0.48	1.23	0.36
Investments	_	_	_	0.69	0.70
Waste Disposal	_	_	_	0.02	0.94
Total	2.44	2.95	2.73	4.4	5.3

NOTE: Business travel presented here in MTN CO2e, resulting in a companywide total of 5.3 million tonnes CO2e. Ammonia purchases depicted are for production of phosphate crop nutrients. Year over year increases for rail and marine transport are due to including data from recently acquired Phosphate and Potash business in Brazil. Investment category includes emissions associated with our 25 percent interest in a joint venture investment in MWSPC, which operates a mine and chemical complex that produces phosphates fertilizers and other downstream products in the Kingdom of Saudi Arabia. Waste disposal category does not include mining wastes. Emissions associated with product use are addressed as part of our product stewardship programs. Please see our 2019 CDP Climate Change response for more information about our Scope 3 emissions. External assurance on certain Scope 3 categories is in process as of the date of this publication's release.

### 305-4 GHG emissions intensity

#### DIRECT AND INDIRECT GHG EMISSIONS INTENSITY (METRIC TONNE CO, e/PER TONNE OF FINISHED PRODUCT)

	2015	2016	2017	2018	2019
Mosaic legacy <sup>1</sup>	0.26	0.26	0.22	0.24	0.23
Mosaic companywide <sup>2</sup>				0.25	0.23

NOTE: 1These figures do not include Mosaic Fertilizantes facilities in Brazil that were acquired in 2018 since they were not part of the original target setting process. For total GHG intensity broken down by business, please see our **2019 Environment Metrics Supplement**.

### 305-5 Reduction of Greenhouse Gas (GHG) emissions

Mosaic is taking a proactive approach to reductions in GHG emissions, with particular emphasis on improving energy efficiency.

GHG emissions reductions resulting from the energy saving initiatives reported in **302-4** equal approximately 43,000 tonnes of  $CO_2e$ , the equivalent of taking more than 8,000 average United States cars off the road for a year. For more information on Mosaic's efforts to reduce GHG emissions and address climate change, please see our **2019 CDP Climate Change response**.

The results of a value chain exercise we completed in 2016 confirmed that the GHG impacts associated with the downstream application of our products — primarily potash and phosphate crop nutrients — are minimal. However, Mosaic promotes the use of best agricultural practices, including research and practices to minimize GHG emissions and other environmental impacts associated with the use of crop nutrient products. Further, Mosaic supports the minimization of GHG emissions and other environmental impacts from the global food supply by encouraging stakeholders to enhance their understanding, adoption and promotion of **4R Nutrient Stewardship**.

Mosaic maintains active partnerships with industry-leading research centers, targeting agriculture efficiency and productivity improvements. In 2019 we conducted 335 small plot trials in Argentina, Brazil, Chile, China, Canada, India, Northern Latin America (Mexico to Peru) and the United States.

### 305-7 NOx, SOx and other significant air emissions

### CRITERIA AIR AND OTHER POLLUTANTS (,000 TONNES)

EMISSION TYPE	2015	2016	2017	2018	NORMALIZED 2019
NOX	4.2	3.27	2.85	3.25	0.19
со	1.39	1.43	0.9	1.06	0.06
РМ	5.73	6.05	6.09	6.24	0.36
S02	15.97	16.55	15.77	19.31	1.12
VOC	0.25	0.24	0.2	0.28	0.02
NH3	1.82	1.84	1.61	1.01	0.06
F	0.13	0.11	0.14	0.28	0.02
H2S	0	0.01	0.01	0.01	0.00*
SAM	0.16	0.16	0.3	0.34	0.02
HF	0	0.13	0.13	0.14	0.01

NOTE: Figures higher due to inclusion of recently acquired Mosaic Fertilizantes facilities in Brazil. Emissions based on stack test results and emission factors. SAM was higher in 2017 due to inclusion of Uncle Sam and Faustina, LA facilities. "Normalized" refers to the emissions value per 1,000 tonnes of finished product. Values marked with an asterisk are less than 0.01 per 1,000 tonnes.

### **304-1** Operational sites owned, leased, managed in, or adjacent to protected areas and areas of high biodiversity value outside protected areas

In Florida, although there are no International Union for Conservation of Nature (IUCN) protected management areas near our operations, Mosaic has placed approximately 22,000 acres in conservation easements along wildlife corridors and other ecologically significant habitats. As of December 31, 2019, Mosaic owned or maintained mineral interests in about 364,000 acres of land in Florida related to our phosphate surface mining operations. These mine areas may abut or contain habitat and wildlife corridors, many of which are recognized on official state maps\* as being high in biodiversity. While Mosaic lands are not adjacent to, nor do they contain land registered as IUCN protected areas, many of these lands are permanently protected through conservation easements. Through December 2019, Mosaic owns or controls more than 32,000 acres in Florida that are designated as non-impacted floodplain, high-quality wetlands, and other preservation for which Mosaic has granted conservation easements.

As of 2019, Mosaic operates three Canadian potash facilities, all located in the southern half of the province of Saskatchewan, including our solution mine at Belle Plaine, two interconnected mine shafts at our Esterhazy shaft mine and our shaft mine at Colonsay. We continue the expansion of capacity in our Potash segment with the K3 shafts at our Esterhazy mine. Following ramp-up, these shafts are expected to add an estimated 0.9 million tonnes to our annual potash operational capacity and provide an infrastructure to move ore from K3 to the K1 and K2 mills.

Mosaic has mineral rights to approximately 616,000 acres in Saskatchewan for potash mining and surface rights to approximately 34,000 acres. Mosaic's United States potash operations include a shaft mine in Carlsbad, New Mexico, with mineral rights to approximately 77,000 acres for potash mining and approximately 7,200 acres of surface rights. Less than 10% of our reserves are within 5 kilometers of lands that have been categorized as protected through mechanisms such as Crown Conservation Easements, IUCN or the Wildlife Habitat Protection Act. It is important to note that unlike in a traditional metals mining setting, potash shaft mining in Saskatchewan occurs at more than 3,000 feet below surface, and potash solution mining requires limited acreage for surface infrastructure. Therefore, the only surface areas that are disturbed are the actual footprint of the mine shaft and the adjacent above-ground processing facilities and tailings management areas.

Mosaic operates five phosphates mines and one potash mine, and four crop nutrient production facilities in Brazil, totaling approximately 312,000 acres. Some Mosaic facilities in Brazil, such as the Cajati mine, are located in regions with high biodiversity value. The Cajati mining operations occupy approximately 4,677 acres near the Ribeira Valley region in the state of Sao Paulo. Though not within a protected area, this facility is near a region that is considered to be of high cultural and biodiversity value due to existence of prominent archaeological sites, diversity of flora and fauna and threatened species as defined by IUCN. Similarly, there are approximately 712 acres of protected area near our Uberaba production facility, which occupies approximately 1,438 acres in the state of Minas Gerais. Though not registered as IUCN protected areas, this land and others adjacent to many of our mining or production facilities are protected by stringent site-specific permit requirements and government regulations.

\*Examples of official state maps include the Florida Department of Environmental Protection's Integrated Habitat Network maps as well as the Critical Lands and Waters Identification Project (CLIP) tool for the Florida Natural Areas Inventory

# **304-2** Descriptions of significant impacts of activities, products and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas

Mosaic's Florida phosphate surface mine operations involve land clearing and dewatering. As part of the permitting process for our phosphate mines, regulatory agencies review comprehensive site survey data and assessment reports to determine and approve temporary impacts to species and habitat. Site specific Wildlife and Habitat Management Plans are developed for each mine, which outline measures to be implemented to protect and manage wildlife, listed species and their habitats, including provisions for pre-clearing surveys and species relocation for less mobile species, such as the gopher tortoise. Other species affected by temporary habitat loss include: Caracara, Florida sandhill crane, little blue heron, southeastern American kestrel, wood stork, and Sherman's fox squirrel.

In addition, in preparation for mining the groundwater table is drawn down for safety of personnel and equipment and to allow more efficient recovery of the phosphate ore. The groundwater level, however, is restored once mining is complete and the area is backfilled. Perimeter recharge systems are used to maintain any ephemeral adverse impact from groundwater drawdown occurs on Mosaic's property boundary. The typical duration between land clearing and restoration of habitat is about 10 years. The re-population of constructed habitat areas—mainly due to their connection to other habitats and foraging areas, demonstrate the reversibility of the impacts. Because mining occurs in a sequential pattern, while new areas are being cleared for mining, habitat restoration in other areas is being completed such that habitat areas remain available for the affected species at all times.

As with any land disturbance activity, affected land lends itself to nuisance plant species proliferation. Mosaic, however, uses aggressive approaches to promote reclamation and mitigation are effective in establishing biodiversity. In fact, post reclamation wildlife surveys indicate that even though the ground surface may be affected for a number of years as a result of the mine process, revegetation and repopulation of these sites with wildlife species is successfully achieved. Many bird species are attracted to the water features contained within the active mine operation and remain onsite throughout the process. These are in part, why the state of Florida deems phosphate mining to be a temporary land use. Please see our **website** for more information.

Potash mining operations in Canada and the United States use shaft and solution mining techniques. Because of the limited footprint on surface features, such as surface infrastructure and tailings management areas, impacts to wildlife and habitats are also highly localized and relatively small in scale. Prior to surface development, Mosaic's Saskatchewan facilities consult multiple stakeholders as part of best management practices and procedures that minimize risk to wildlife and habitats in our operating areas.

Phosphate mining operations in Brazil use an open pit process to extract phosphate reserves. The process is heavily regulated and there are procedures in place to minimize impacts to wildlife and habitats. Each of our mining operations in Brazil has a management plan and environmental compensation strategies that address the locations' unique biodiversity needs. As an example of our environmental compensation strategies, we set aside a portion of the mining site— approximately 20 percent of the project footprint—as part of our efforts to preserve and protect unmined land. Please see **303-2**, **304-1** and **MM2** for more information.

### MM1 Land disturbed or rehabilitated

In our Florida phosphate operations, Mosaic reports our Florida mining and reclamation activities to the Florida Department of Environmental Protection (FDEP) Mining and Mitigation Program. As of the date of this publication, the 2017 through 2019 figures have not been fully validated and deemed complete by FDEP. We provide estimates of mined and reclaimed acres for those years in the table below. Once we have satisfied all reclamation requirements with respect to mined and disturbed lands, the FDEP "releases" those acres from further reclamation obligation and those reclaimed lands, are then considered "released acres" by FDEP. Accordingly, an increase in the annual released acreage is the result of our satisfaction of those reclamation requirements.

Our Brazil phosphate operations use an open pit process to extract phosphate reserves. Once mining is complete, land recovery efforts include resloping and revegetating the mined area. In addition to the totals below representing our Florida phosphate operations' mining and reclamation activities, the Mosaic Fertilizantes business mined and/or modified approximately 16,697 acres and recovered approximately 2,360 acres in 2019.

	MINED AND DISTURBED*		MINED AND DISTU (INITIAL REVEGET	RELEASED*	
YEARS	MINED	DISTURBED ONLY	MINED	DISTURBED	MINED & DISTURBED
All Previous	150,450	35,559	109,214	31,665	76,001
2015	2,627	6,243	8,800	3,846	14,433
2016	2,035	691	2,161	1,184	9,362
2017**	2,964	1,437	2,449	134	2,089
2018**	2,331	-213	720	405	3,657
2019**	1,845	139	606	-91	3,732
Total	162,252	43,856	123,949	37,144	109,274

#### LAND MINED AND RECLAIMED (ACRES\*)

\*Estimated acreages based on Annual Mine and Reclamation reports submitted to the Florida Department of Environmental Protection (FDEP) pursuant to Chapter 62C-16.0091 F.A.C. and FDEP approved Conceptual Reclamation Plans.

\*\* As of the date of this publication's release, 2017-2019 reports have not been validated by FDEP. Accordingly, these figures are estimates only and may be revised in future reports.

### MM2 Number and percentage of sites identified as requiring biodiversity management plans

All active mine sites within the United States, Canada and Brazil are required to operate pursuant to federal, state/ provincial and local regulations related to management of habitat and wildlife. Mosaic has three operating mines in Florida; all (100%) have both Wildlife and Habitat Management Plans and Wetland Mitigation plans to promote and maintain biodiversity. While Mosaic's Carlsbad, NM potash mine is an underground mine, it maintains an active migratory bird program. In Saskatchewan wildlife management plans and procedures are used to ensure compliance with applicable legislation, project approvals and commitments. In Brazil, each of our five active mine sites has a biodiversity management plan in place. Environmental Stewardship, including biodiversity and preservation of important ecological sites, is a critical part of Mosaic's sustainability efforts.

### 304-3 Habitats protected or restored

In our Florida phosphate mining operations, we restore or reclaim every acre of land we mine or disturb, with an emphasis on habitat. We report those activities in **MM1**. Consequently, there are at least as many acres in habitat after mining as before. In addition, environmentally sensitive lands—typically about 15 percent of a project site— are set aside for preservation, with additional reclaimed wetlands and some uplands (such as gopher tortoise recipient sites) protected in perpetuity through conservation easements. For example, a typical 10,000 acres mine site may be composed of about 25% wetland and 30% upland habitat, with the balance in other uses such as agriculture. Frequently—prior to mining— much of this habitat is fragmented or unconnected due to historic agricultural practices. Thus, holistic mitigation plans allow restoration to be consolidated and intertwined — as well as interconnected to the high-quality preserved land — to promote wildlife re-establishment and migration as well as in providing buffers for streams and flowways. Success of these restoration efforts is determined by standards imposed by regulatory agencies, and independent assessments by third party ecological professionals.

Mosaic's Florida business planted approximately 667,596 trees in 2019, reclaiming uplands, significant upland habitats and wetlands. Please see **MM1** for information on our reclamation activities in 2019.

Mosaic has fostered partnerships with, and funding for, a variety of non-governmental organizations (NGOs) and academic institutions to advance our understanding of the habitats we manage through reclamation. Examples of these groups include Tampa Bay Watch, The Nature Conservancy, Archbold Biologic Station and Audubon, Florida.

Mosaic's Potash business segment is similarly committed to habitat restoration. For example, in 2012, Mosaic made a grant to Ducks Unlimited for \$2 million that will restore at least 500 acres of wetlands over a 10-year period in Saskatchewan. 2019 marked the eighth year of this agreement. To date, approximately 439 acres have been restored as part of this initiative.

As part of our environmental compensation efforts in the Mosaic Fertilizantes segment, we set aside a portion of a mining site—approximately 20 percent of the project footprint (but in certain cases as much as 80 percent)—to preserve and protect unmined land in its natural state. Additionally, as part of other mining requirements, we complete other environmental compensation actions such as planting trees. As of 2019 approximately 10,000 acres were classified as protected, preserved or restored. As another example of the Mosaic Fertilizantes business's efforts, in 2019 we invested in wildlife and forest preservation programs in the southwest region of the state of Minas Gerais. We also contributed to efforts to preserve and monitor at-risk avian species including the Brazilian merganser.

### **304-4** Total number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk

Mosaic does not specifically manage wildlife species per the International Union for Conservation of Nature (IUCN) List designations, but rather in accordance with rules established for threatened or endangered species by regulatory agencies with authority in the regions in which we operate. Some of the species listed below are present on lists that are applicable to the region in which the facility is located.

#### IUCN RED LIST OF SPECIES POSSIBLY IN THE VICINITY OF OPERATIONS

FLORIDA PHOSPHATE OPE	RATIONS	
ICUN RED LIST DESIGNATION	NUMBER OF SPECIES	TYPE OF SPECIES
Endangered	_	_
Vulnerable	5	Florida bonneted bat, Florida mouse, gopher tortoise, Florida scrub jay, West Indian manatee
Near Threatened	5	Gopher frog, short-tailed snake, common bobwhite, loggerhead shrike, wood thrush, common grackle

Florida state and/or federally-listed threatened species considered IUCN Least Concern include the burrowing owl, Florida pine snake, least tern, little blue heron, Southeast American kestrel, tricolored heron, wood stork, Eastern indigo snake, created caracara, American alligator, Eastern diamondback rattlesnake. We manage these species in accordance with rules established by applicable regulatory agencies.

#### IUCN RED LIST OF SPECIES POSSIBLY IN THE VICINITY OF OPERATIONS

U.S. POTASH OPERATIONS (NEW MEXICO)								
ICUN RED LIST DESIGNATION	NUMBER OF SPECIES	TYPE OF SPECIES						
Endangered	2	Pecos gambusia, <sup>1</sup> Southwestern willow flycatcher <sup>1</sup>						
Vulnerable	2	Western yellow-billed cuckoo, <sup>2</sup> Pecos bluntnose shiner <sup>2</sup>						
Near Threatened	3	Loggerhead shrike, snowy plover, piping plover						

<sup>1</sup>The pecos gambusia and western yellow-billed cuckoo were not necessarily observed near the Carlsbad facility, but they are listed by the Bureau of Land Management as confirmed or hypothetical species in the Carlsbad region. The U.S. Endangered Species Act (ESA) lists these species as "endangered" <sup>2</sup> These species are ESA listed "threatened"

#### IUCN RED LIST OF SPECIES POSSIBLY IN THE VICINITY OF OPERATIONS

#### **CANADA POTASH OPERATIONS**

U.S. DOTACH ODEDATIONS (NEW MEVICO)

ICUN RED LIST DESIGNATION	NUMBER OF SPECIES	TYPE OF SPECIES
Endangered	0	_
Vulnerable	3	horned grebe, snowy owl, Sprague's pipit
Near Threatened	3	Olive-sided flycatcher, loggerhead shrike, common grackle

#### IUCN RED LIST OF SPECIES POSSIBLY IN THE VICINITY OF OPERATIONS

# LOUISIANA PHOSPHATE OPERATIONS ICUN RED LIST DESIGNATION NUMBER OF SPECIES TYPE OF SPECIES Endangered 1 Pallid sturgeon Vulnerable 1 West Indian manatee Near Threatened

NOTE: Species listed as possibly affected by Louisiana operations are from Louisiana Department of Wildlife and Fisheries database and may not have been actually observed on or near Mosaic property. Avian species listed as affected or possibly affected by New Mexico and Saskatchewan operations are migratory species with potential migration patterns proximal to our operations in those geographies.

### IUCN RED LIST OF SPECIES POSSIBLY IN THE VICINITY OF OPERATIONS

#### **BRAZIL PHOSPHATE AND POTASH OPERATIONS**

ICUN RED LIST DESIGNATION	NUMBER OF SPECIES	TYPE OF SPECIES
Critically Endangered	1	Brazilian merganser
Endangered	3	Brasilia tapaculo, crowned solitary eagle, vinaceous-breasted Amazon
Vulnerable	9	bare-throated bellbird, channel-billed toucan, cycloramphus acangatan, white-bearded antshrike, giant anteater, sharp-tailed tyrant, southern tiger cat, bare-faced curassow, lesser nothura
Near Threatened	19	azure jay, azure-shouldered tanager, bearded tachuri, black spiny-necked swamp turtle, black-fronted titi, blue finch, blue-winged macaw, festive coquette, golden-capped parakeet, greater crescent- chested puffbird, greater rhea, maned wolf, neotropical otter, saw-billed hermit, spot-breasted antvireo, white- banded tanager, white-breasted tapaculo, yellow-faced Amazon

NOTE: Please see our **2019 Environment Metrics Supplement** for a full list of IUCN "Least Concern" species in the vicinity of our operations. Avian species listed as affected or possibly affected by New Mexico and Saskatchewan operations are migratory species with potential migration patterns proximal to our operations in those geographies.

### 306-1 Total water discharge by quality and destination

### **306-5** Identity, size, protected status and biodiversity value of water bodies and related habitats significantly affected by the organization's discharges of water or runoff

#### TOTAL WATER DISCHARGE 2019 (TONNES UNLESS OTHERWISE NOTED)

		2015	2016	2017	2018	2019
Dhaarahata	Annual Outfall Discharges (,000 m3)	401,242	456,861	383,218	454,995	388,980
Phosphate Segment Discharges	Phosphorous Loadings	2,025	1,826	1,732	1,505	976
	Nitrogen Loadings	388	490	409	466	462
	Annual Outfall Discharges (,000 m3)	_	_	_	164,803	48,563
Mosaic Fertilizantes Segment Discharges	Phosphorous Loadings	_	_	_	681	2051
	Nitrogen Loadings	tfall Discharges (,000 m3) 401,242 456 rus Loadings 2,025 1 padings 388 tfall Discharges (,000 m3) — rus Loadings —	_	_	82	57

NOTE: Per location-specific permit conditions, our Brazil operations monitor water discharges for various other parameters not reported here. Please view our **2019 Environment Metrics Supplement** for more information.

#### RIVERINE BASINS WHERE MOSAIC OPERATES

Hillsborough River175,00095Peace River608,000169Alafia River109,00038Little Manatee River58,00058Myakka River155,000106Mississippi River322,500,0003,370Pecos River11,500,0001,490Qu'Appelle1,780,000430Jacupiranguinha River2,568,10060Capivara River2,20993Sal Stream2,20921Fundo Stream34,400622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River2,208,6008Gameleira Stream1,4300,0008Seco Creek14,300,0006	WATER BODY/BASIN	BASIN SIZE (HECTARES)	RIVER LENGTH (KM)
Alafia River109,00038Little Manatee River58,00058Myakka River155,000106Mississippi River322,500,0003,370Pecos River11,500,0001,490Qu'Appelle1,780,000430Jacupiranguinha River2,268,10060Capivara River2,20993Sal Stream2,20993Sal Stream2,20993Sal Stream2,20993Salitre Stream34,400622Bebedouro Stream2,209,100622Bebedouro Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,00078Grande River258,300,0001,360Gameleira Stream14,300,0008	Hillsborough River	175,000	95
Little Manatee River58,00058Myakka River155,000106Mississippi River322,500,0003,370Pecos River11,500,0001,490Qu'Appelle1,780,000430Jacupiranguinha River2,568,10060Capivara River2,20993Sal Stream2,20921Fundo Stream34,40016Mandaguari Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Inbé Stream3,440,00078Grande River258,300,0001,360Gameleira Stream14,300,0008	Peace River	608,000	169
Myakka River155,000106Mississippi River322,500,0003,370Pecos River11,500,0001,490Qu'Appelle1,780,000430Jacupiranguinha River2,568,10060Capivara River2,20993Sal Stream2,20921Fundo Stream34,40016Mandaguari Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream3,440,0003Grande River2,208,60078Grande River258,300,0001,360Kanda Baneleira Stream14,300,0008	Alafia River	109,000	38
Mississippi River322,500,0003,370Pecos River11,500,0001,490Qu'Appelle1,780,000430Jacupiranguinha River2,568,10060Capivara River2,20993Sal Stream2,20921Fundo Stream34,40016Mandaguari Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Little Manatee River	58,000	58
Pecos River         11,500,000         1,490           Qu'Appelle         1,780,000         430           Jacupiranguinha River         2,568,100         60           Capivara River         2,209         93           Sal Stream         2,209         21           Fundo Stream         34,400         16           Mandaguari Stream         34,400         9           Salitre Stream         2,209,100         622           Bebedouro Stream         2,209,100         622           Bonito Stream         2,209,100         11           Limeira Stream         3,440,000         3           Inferno Stream         3,440,000         7           Imbé Stream         3,440,000         3           Inferno Stream         3,440,000         3           Grande River         258,300,000         1,360           Gameleira Stream         14,300,000         8 <th>Myakka River</th> <th>155,000</th> <th>106</th>	Myakka River	155,000	106
Qu'Appelle1,780,000430Jacupiranguinha River2,568,10060Capivara River2,20993Sal Stream2,20921Fundo Stream34,40016Mandaguari Stream34,4009Salitre Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Mississippi River	322,500,000	3,370
Jacupiranguinha River2,568,10060Capivara River2,20993Sal Stream2,20921Fundo Stream34,40016Mandaguari Stream34,4009Salitre Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Pecos River	11,500,000	1,490
Capivara River2,20993Sal Stream2,20921Fundo Stream34,40016Mandaguari Stream34,4009Salitre Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Qu'Appelle	1,780,000	430
Sal Stream       2,209       21         Fundo Stream       34,400       16         Mandaguari Stream       34,400       9         Salitre Stream       2,209,100       622         Bebedouro Stream       2,209,100       8         Bonito Stream       2,209,100       11         Limeira Stream       3,440,000       7         Imbé Stream       3,440,000       3         Inferno Stream       2,208,600       78         Grande River       258,300,000       1,360         I 4,300,000       8       1	Jacupiranguinha River	2,568,100	60
Fundo Stream34,40016Mandaguari Stream34,4009Salitre Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Capivara River	2,209	93
Mandaguari Stream34,4009Salitre Stream2,209,100622Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream2,208,6003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Sal Stream	2,209	21
Salitre Stream         2,209,100         622           Bebedouro Stream         2,209,100         8           Bonito Stream         2,209,100         11           Limeira Stream         3,440,000         7           Imbé Stream         3,440,000         3           Inferno Stream         2,208,600         78           Grande River         258,300,000         1,360           I dameleira Stream         14,300,000         8	Fundo Stream	34,400	16
Bebedouro Stream2,209,1008Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Mandaguari Stream	34,400	9
Bonito Stream2,209,10011Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Salitre Stream	2,209,100	622
Limeira Stream3,440,0007Imbé Stream3,440,0003Inferno Stream2,208,60078Grande River258,300,0001,360Gameleira Stream14,300,0008	Bebedouro Stream	2,209,100	8
Imbé Stream         3,440,000         3           Inferno Stream         2,208,600         78           Grande River         258,300,000         1,360           Gameleira Stream         14,300,000         8	Bonito Stream	2,209,100	11
Inferno Stream         2,208,600         78           Grande River         258,300,000         1,360           Gameleira Stream         14,300,000         8	Limeira Stream	3,440,000	7
Grande River         258,300,000         1,360           Gameleira Stream         14,300,000         8	Imbé Stream	3,440,000	3
Gameleira Stream 14,300,000 8	Inferno Stream	2,208,600	78
,,	Grande River	258,300,000	1,360
<b>Seco Creek</b> 14,300,000 6	Gameleira Stream	14,300,000	8
	Seco Creek	14,300,000	6

In the Phosphates business, no outfalls discharge directly into a designated protected area, although discharges occur in three riverine basins upstream of Outstanding Florida Waters (i.e. segments of Little Manatee River, Hillsborough River and Myakka River) and Florida Wild and Scenic Rivers (segment of Myakka River). As an overarching principle, water that falls within the active, operational footprint of Mosaic's phosphate mining and fertilizer production facilities is actively managed, used in our operations, treated if necessary and discharged through NPDES outfalls pursuant to water quality standards stipulated by permits. Discharges are monitored, sampled and analyzed regularly by Mosaic, with reports provided to regulatory agencies to demonstrate ongoing compliance with permit limitations.

For our Canadian Potash business, in certain high precipitation events, off-site discharges of freshwater surface runoff are warranted and are approved in advance by the Saskatchewan Ministry of Environment and the Saskatchewan Water Security Agency. There was one such instance in 2019. Please see **MM3** for a discussion of our Potash segment's brine disposal methods.

None of our Brazil facilities discharge directly into designated protected areas. Effluents are regularly monitored, sampled, and analyzed by Mosaic, and reports are regularly provided to governmental environmental agencies in accordance with applicable requirements.

### 306-2 Total weight of waste by type and disposal method

# **306-4** Weight of transported, imported, exported or treated waste deemed hazardous under the terms of the Basel Convention, and percentage of transported wastes shipped internationally

### 2019 WASTE GENERATED BY DISPOSAL METHOD (TONNES) INCINERATION LANDFILL RECYCLE Potash 18.56 892.80 6.474.46

					• · · · - · ·	
Potash	18.56	892.80	6,474.46	1,092.75	62.43	8,541
Hazardous	18.56	112.07	226.59	1,092.75	62.43	1,513.75
Non-hazardous	-	780.73	6,247.87	-	-	7,028.60
Phosphates	515.54	10,707.67	14,795.55	1,461.34	-	27,480
Hazardous	229.99	869.93	-	1,015.93	-	2,115.85
Non-hazardous	285.56	9,837.74	14,795.55	445.40	-	25,364.25
Mosaic Fertilizantes	19.82	8,123.19	13,325.34	-	2,797.50	24,265
Hazardous	15.01	841.58	550.67	-	1,937.53	3,344.80
Non-hazardous	4.81	7,281.61	12,774.67	-	859.97	20,921.05
Total	553.92	19,723.66	34,595.35	2,554.09	2,858.60	60,286

TREATMENT

OTHER

TOTAL

NOTE: "Other" disposal method includes combinations of co-processing, retort, treatment, incineration and/or deep well injection. Subtotals may not always add up to totals due to rounding. Our tracking of wastes across our business continues to improve. As of the date of this report, we have secured third-party assurance of our Potash and Phosphate total waste generated for 2019, totaling 36, 021 tonnes for the reporting period; however, we did not earn external assurance on the Mosaic Fertilizantes data. The figures reported here for Mosaic Fertilizantes are based on totals available as of the date of this report, but some volumes may have been inadvertently excluded. We continue to improve our tracking of wastes across our business and will implement the recommendations from ERM CVS in an effort to improve our tracking and reporting of enterprise-wide waste figures. Legacy Brazil facilities previously reported under International Distribution segment are now reported under Mosaic Fertilizantes segment.

No hazardous wastes were shipped internationally.

### MM3 Overburden, rock, tailings and sludge

#### MINING AND MINERAL PROCESSING SOLID WASTE GENERATED AND DISPOSAL METHOD (TONNES)

PHOSPHATES

MATERIAL	2015	2016	2017	2018	2019	DISPOSAL METHOD
Overburden	139,197,603	142,792,323	126,608,107	120,461,664	113,826,257	Used for reclamation
Sand Tailings	40,007,843	41,395,971	39,221,004	37,790,316	36,994,175	Used for reclamation
Clay	19,544,716	19,289,693	18,416,751	15,573,299	14,628,902	Stored in surface impoundments and used for reclamation
Phosphogypsum	23,556,918	22,864,328	23,181,038	21,150,286	20,273,770	Managed in permitted phosphogypsum stack systems

#### POTASH

MATERIAL	2015	2016	2017	2018	2019	DISPOSAL METHOD
Tailings (Salt)	9,511,314	9,987,260	12,961,397	13,522,972	12,734,513	Stored or recycled for commercial use
Brine	4,502,953	4,992,673	13,858,720	13,547,629	12,176,515	Deep well injection or evaporation

#### **MOSAIC FERTILIZANTES**

MATERIAL	2015	2016	2017	2018	2019	DISPOSAL METHOD
Waste rock (sterile)	—	-	-	63,768,400	53,039,223	Stored and used for reclamation
Sand Tailings	-	—	_	19,169,629	13,012,380	Stored in tailings dams
Phosphogypsum	_	_	_	5,372,140	4,630,659	Managed in permitted phosphogypsum stack systems or used in coproduct applications
Brine	-	—	_	4,172,975	5,529,700	Evaporated or discharged

NOTES: Due to the composition of mineral deposits in Brazil, our newly acquired Mosaic Fertilizantes operations handle various mining and production wastes we have not historically reported here. Please review our **2019 Environment Metrics Supplement** for more information.

In 2018, our Potash segment standardized the calculation methodology for brine, which explains the variance between the 2016 and 2017 reported brine values. There was no change to the operations process and the brine volumes were accurately reported.

### 306-3 Number and volume of significant spills

In 2019 we had a total of six releases equal to or greater than 2,000 gallons.

### **ENVIRONMENTAL RELEASES > 2,000 GALLONS**

BUSINESS SEGMENT	2015	2016	2017	2018	2019
Phosphates	3	8	5	1	3
Potash	3	8	2	0	0
Mosaic Fertilizantes	-	-	-	-	3

Note: Table includes environmental releases equal to or greater than 2,000 gallons equivalent. Environmental releases meeting these criteria in 2019 included: Phosphates – three (one release of fertilizer to water; two offsite releases of stormwater); Mosaic Fertilizantes – three (stormwater released to water; sulfuric acid released to soil; and ammonia released to water).

### **307-1** Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations

Companywide, we had 11 events of alleged non-compliance with environmental permits that resulted in enforcement actions in 2019, representing fines in the amount of approximately \$190,000. Of those, four were events related to water quality permits.

In 2019 10-K and 10-Qs, Mosaic reports any environmental enforcement action that it has identified as potentially material to investors, or if not potentially material, as potentially meeting or exceeding a significance threshold of \$100,000. In 2019, there were no such enforcement actions.

### **Management Approach: Supplier Environmental Assessment**

### **308-2** Significant actual and potential environmental impacts in the supply chain and action taken

In 2016, we worked with a third party to complete an assessment of our value chain, in part, to identify the environmental impacts associated with our top suppliers. The analysis included suppliers to which approximately 90 percent of our supply chain expenditures in North America were made, representing more than 3,500 suppliers. Through this exercise we determined that the environmental impacts associated with our supply chain are primarily associated with the purchase of manufactured ammonia—specifically, the greenhouse gas emissions associated with producing this material. We report those emissions in **305-3**. We will continue to engage with suppliers to evaluate and report their performance, while identifying opportunities to mitigate and reduce their individual company and broader industry's environmental impacts.

Another potential impact relates to downstream use of crop nutrient products which, when used improperly, can run into waterways and contribute to impaired water quality and can also nourish algal blooms. Mosaic supports and promotes the 4R Nutrient Stewardship framework to achieve the agricultural benefits of fertilizer and reduce nutrient loss to the environment. Since 2004, Mosaic has invested over \$25 million with more than 180 organizations on waterrelated initiatives, including nutrient stewardship. Our efforts have increased adoption of 4R practices on over 11 million acres in North America within the last six years. Of those 11 million acres, over five million have been validated as 4R acres through 4R Nutrient Stewardship Certification and 4R Designation programs across North America.

### Management Approach: Employment, Labor/Management Relations, Diversity and Equal Opportunity

At Mosaic, the strength of our business relies on the commitment of an exceptional global team of employees. Whether working in our mines, distribution facilities or offices, our more than 12,200 employees are part of a global Mosaic team that is richly diverse in skills, experiences and backgrounds. Together, we are responsible, innovative, collaborative and driven.

Mosaic aims to be the employer of choice for a diverse and inclusive workforce. Our global talent investment philosophy is to provide competitive compensation and benefits, with flexibility to choose programs that best meet our employees' needs. Mosaic offers health, welfare and retirement benefits to all full-time employees and eligible dependents.

Mosaic offers competitive compensation and benefits in each of the company's significant locations of operation. Within each of the countries in which Mosaic operates, benefits provided or offered to our full-time employees may differ for various reasons, including:

- State or country mandated benefit laws that apply to Mosaic employees in a specific geography
- · Labor agreements between Mosaic and labor organizations acting on behalf of represented employees
- Market-specific benefit programs or practices that exist within an area that Mosaic competes for labor
- The impact to employees of local or national tax laws regarding the treatment of company-sponsored benefits

Mosaic values collective bargaining as an important form of collaborative employee engagement. In addition, Mosaic is sensitive to the needs of its employees, and much consideration is placed on applicable notice periods for any such changes that may impact employees.

Mosaic's Equal Employment Opportunity and Nondiscrimination Policy provides equal employment opportunities to all Mosaic applicants and employees and other qualified persons without regard to race, religion, color, gender, national origin, age, disability, marital status, citizenship status, military or veteran status, sexual orientation, gender identity, genetic information, or any other legally protected status under applicable laws in countries where Mosaic employees work. The policy also provides that Mosaic is committed to maintaining a work environment free of discrimination. Mosaic's commitment applies to all terms and conditions of employment, including: recruiting and hiring, training and promotion, compensation and benefits, performance assessments, transfers, terminations, layoffs or recall from layoff, leaves of absence, and company-sponsored training and education.

Retaliation or reprisal toward an employee who has exercised their rights under this policy is strictly prohibited. Mosaic's **Code of Business Conduct and Ethics** reinforces this policy.

Our **Commitment to Inclusion** reinforces that Mosaic is focused on building a representative workforce that embraces the opportunities that diversity brings to the workplace.

Mosaic supports and participates in a variety of formal and informal channels through which employees can submit concerns or grievances, including an EthicsPoint hotline, biennial engagement survey, mediation, arbitration, and/ or through other formal administrative tribunals such as the National Labor Relations Board and Equal Employment Opportunity Commission. Our collective bargaining agreements contain procedures for resolving grievances over the application or interpretation of such agreements, and Mosaic resolves labor grievances in accordance with the procedures outlined in those respective agreements.

### **401-1** Total number and rates of new employee hires and employee turnover by age group, gender and region

#### **EMPLOYEES BY AGE GROUP, GENDER AND REGION**

	<30		30-50		>50		TOTAL	
COUNTRY	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
Australia	0	0	0	0	0	1	0	1
Brazil	179	845	525	3,714	29	598	733	5,157
Canada	54	184	201	1,179	51	493	306	1,856
China	5	6	45	94	1	9	51	109
India	1	8	7	45	0	2	8	55
Paraguay	4	18	6	28	0	4	10	50
U.S.A	47	340	339	1,545	222	1,442	608	3,327
Subtotal	290	1,401	1,123	6,605	303	2,549	1,716	10,555
Total	1,6	1,691		28	2,8	52	12,	271

NOTE: Excludes long-term leaves, co-ops, seasonal and temporary employees.

Employees considered to be on long-term leave are those away from work for more than 180 days.

#### NEW HIRES BY AGE GROUP, GENDER AND REGION

	<30		30-50		>50		TOTAL	
COUNTRY	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
Australia	0	0	0	0	0	0	0	0
Brazil	61	208	102	195	0	7	163	410
Canada	8	16	8	20	1	1	17	37
China	1	2	2	2	0	0	3	4
India	0	5	1	1	0	0	1	6
Paraguay	1	3	2	3	0	0	3	6
U.S.A	22	89	40	154	13	46	75	289
Subtotal	93	323	155	375	14	54	262	752
Total	41	416		530		80	1,0	14

NOTE: Excludes long-term leaves, co-ops, seasonal and temporary employees. Employees considered to be on long-term leave are those away from work for more than 180 days.

### EMPLOYEE TURNOVER BY AGE GROUP, GENDER AND REGION

	<3	0	30-	50	>5	0	тот	AL
COUNTRY	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
Australia	0	0	0	0	0	0	0	0
Brazil	45	156	117	478	11	109	173	743
Canada	1	9	9	37	8	52	18	98
China	0	1	2	1	0	0	2	2
India	0	0	0	2	0	0	0	2
Paraguay	0	1	1	13	0	2	1	16
U.S.A	11	36	35	150	26	129	72	315
Subtotal	57	203	164	681	45	292	266	1176
Total	26	60	84	15	33	7	144	42

NOTE: Figures exclude one employee from China from an unknown age and gender category. Excludes long-term leaves, co-ops, seasonal and temporary employees. Turnover totaled 12% in 2019.

### **401-2** Benefits provided to full-time employees that are not provided to temporary or part- time employees, by significant locations of operation

Mosaic provides competitive compensation and bonus opportunities for jobs in all disciplines and geographic markets based on company and individual performance. Additionally, Mosaic contributes toward retirement income benefits, which may include defined-benefit pension plans, defined-contribution plans or other supplemental retirement plans across our locations and countries. The majority of administrative, insurance and other costs associated with Mosaic- sponsored health and welfare plans is borne by us. Participation in the retirement plans is automatic in the United States and Canada. The defined-contribution plan is open to all, but it is not mandatory to participate.

TYPE OF BENEFIT	UNITED STATES	CANADA	BRAZIL	PARAGUAY	INDIA	CHINA
Health Care	٠	٠	٠	٠	٠	٠
Life Insurance	٠	٠	٠	٠	٠	٠
AD&D Insurance	٠	٠			٠	٠
Disability Coverage	٠	•	٠	٠	•	٠
Employee Assistance Program	٠	٠	٠	٠		٠
Defined-benefit Pension Plan	٠	٠	•		•	
Defined-contribution Savings Plan	٠	٠	٠		٠	
Annual Profit Sharing	٠	٠	•	٠	•	٠
Maternity Leave	٠	٠	•	٠	•	٠
Paternity Leave	٠	٠	٠	٠	٠	٠
Family Leave	٠	٠				
Sickness Leave	•	٠	•	٠	•	٠
Deferred Bonus and Deferred Pay	٠		٠			
Long-term Incentives	٠	٠	٠	٠	٠	٠
Stock Ownership	٠				٠	
Relocation Assistance	٠	٠	٠	٠	٠	٠
Flex Time Program	٠	•	٠			•
Formal Wellness Programs	٠	•	٠			•
Tuition Assistance/Education	٠	٠	•	٠	٠	•
Telecommute Program					•	•

### **EMPLOYEE BENEFITS** (• = YES)

\*In most countries maternity and paternity leave are offered in accordance with applicable law. Mosaic provides additional paternity leave in India; additional maternity leave in Brazil; and, as of 2018, offers additional parental leave (maternity and paternity) in the United States. \*\*Formal Wellness Program includes benefits such as biometric screenings, on-site fitness facilities and mother's milk shipping. Individual wellness benefits vary by country.

### 401-3 Parental Leave

### PARENTAL LEAVE

		EMPLOYEES ENTITLED TO PARENTAL LEAVE (2019)	EMPLOYEES WHO TOOK PARENTAL LEAVE (2019)	EMPLOYEES WHO RETURNED TO WORK (2019)	EMPLOYEES STILL EMPLOYED 12 MONTHS AFTER RETURN (2018-2019)	RETURN TO WORK RATE	RETENTION RATE
Male		7,563	73	66	27		
	USA	1,502	42	40	20	100%	100%
	Canada	744	12	9	4	100%	100%
	Brazil	5,154	12	10	0	100%	100%
	India	56	4	4	0	100%	100%
	China	107	3	3	3	100%	100%
Female		1,497	66	36	19		
	USA	500	17	12	4	100%	100%
	Canada	204	10	3	1	100%	100%
	Brazil	733	34	17	10	100%	100%
	India	8	2	1	1	100%	100%
	China	52	3	3	3	100%	100%
Total		9,060	139	102	46	100%	100%

NOTE: Per the definitions for this disclosure as laid out in the GRI Employment Standard, return to work rate is calculated as the total number of employees that returned to work after parental leave divided by the number employees due to return to work after taking parental leave. Retention rate is calculated as the number of employees retained 12 months after returning to work following a leave of parental leave divided by the total number of employees returning from parental leave in the prior reporting period(s).

### **402-1** Minimum notice periods regarding operational changes, including whether these are specified in collective agreements

In the United States, we adhere to or exceed the minimum notice requirements set by federal and state Worker Adjustment and Retraining Notification Act (WARN) laws. Additionally, in the U.S. some of Mosaic's labor agreements contain provisions of advance notice periods with respect to significant operational changes that impact employees. In most locations the exact notice requirement varies depending on circumstances surrounding the changes. In Canada, Mosaic adheres to or exceeds the minimum notice requirements set by provincial employment standards laws. In China, Mosaic adheres to or exceeds the 30-day notice requirements set by Article 41 of the Employment Contract Law (ECL). In Brazil, Mosaic adheres to the minimum 30-day notice requirement for dismissals without cause required by Brazilian Labor Law. In the other regions where we operate, Mosaic meets and usually exceeds the minimum notice required, which varies by local legislation and collective bargaining agreements.

### MM4 Number of strikes and lock-outs exceeding one week's duration, by country

Employees from the Miski Mayo joint venture in Peru organized a strike in 2019 that lasted approximately two weeks. The strike was determined to be illegal and ended when the workforce influenced union leadership to continue the union contract negotiation process.

### 405-1 Diversity of governance bodies and employees

### WORKFORCE BY AGE AND GENDER

	FEMALE		MALE		TOTAL	
AGE GROUP	COUNT	PERCENTAGE	COUNT	PERCENTAGE	SUBTOTAL	PERCENTAGE
<30	290	2.4%	1,401	11.4%	1,691	13.8%
30-50	1,123	9.2%	6,605	53.8%	7,728	63.0%
>50	303	2.5%	2,549	20.8%	2,852	23.2%
Total	1,716	14.0%	10,555	86.0%	12,271	100%

NOTE: Excludes long-term leaves, coops, seasonal and temporary workers. 14% of Mosaic's total workforce is female and 16% of the management workforce is female. Approximately 28% of the United States workforce is considered a member of a minority group. "Minority group" in the United States is defined as non-white ethnicity of any gender.

### BOARD OF DIRECTORS BY AGE AND GENDER

	FEMALE		MALE		TOTAL	
AGE GROUP	COUNT	PERCENTAGE	COUNT	PERCENTAGE	SUBTOTAL	PERCENTAGE
30-50	0	0%	1	8%	1	8%
>50	3	25%	8	67%	11	92%
Total	3	25%	9	0.75%	12	100

NOTE: Table represents age and gender information for Mosaic's 2019 Board of Directors. For more information, please review our **2019 Proxy Statement**.

### **405-2** Ratio of basic salary and remuneration of women to men by employee category, by significant locations of operation

We are committed to providing the environment, development opportunities and compensation to ensure that Mosaic is a company where employees are proud to work and grow.

We are an equal opportunity employer, and our recruiting practices focus on matching the best possible candidate to the position. Mosaic uses salary ranges that are competitive with market pay ranges for positions of comparable responsibility, functional knowledge, impact and other compensable factors. Gender is not a factor when determining compensation. Each salary range has a minimum or threshold salary for a new hire, although Mosaic typically sets the actual salary above this minimum.

### Management Approach: Occupational Health and Safety

We are dedicated to providing a safe, healthy and respectful work environment for an engaged, inclusive workforce. Mosaic's Environmental Health and Safety Management System, aligned to ISO 14001, OHSAS 18001 and ANSI-Z10, integrates internationally regarded best management practices into our operations while affirming our ongoing safe and environmentally responsible performance. We strive to continually improve Mosaic's management system through efforts such as annual self- assessments, which are reviewed by a combined internal and external consultant audit team.

Mosaic's safety management system is designed to identify, evaluate and control risks. This proactive approach allows us to understand the risks, take action and prevent incidents from occurring in the first place. Mosaic's proactive approach includes targets for risk reduction controls at all facilities which continues the drive toward zero injuries and incidents. Incident management is one of ten elements of the management system and focuses on thorough incident investigation resulting in corrective and preventative actions. Mosaic's best practice is to communicate incident investigation findings to ensure lessons learned are shared throughout the company.

Though rare, emergencies can occur in our business, and the ability to respond promptly and effectively is critical. Mosaic's overarching approach to crisis management includes risk anticipation and mitigation, site-specific emergency response plans, and routine crisis simulation drills involving Mosaic employees from various functions and emergency response professionals from the communities where we operate. Our internal crisis management intranet site outlines response plan specifics, including roles, procedures, guidelines and protocols for handling crises and communicating with stakeholders.

Ultimately, our goal is zero harm to people and the environment. Globally, all Mosaic employees, service providers and contractors are held to the same high standards outlined in our Code of Business Conduct and Ethics.

### **403-1** Percentage of total workforce represented in formal joint managementworker health and safety committees that help monitor and advise on occupational health and safety programs

Mosaic has safety committees at a majority of our global operations, representing more than 96 percent of employees. All Mosaic facilities located in Brazil, the United States and Canada have formal joint safety committees. The role of these committees, which are composed of employees from all levels, is to promote safety awareness and reinforce a working environment that promotes connectivity, teamwork and productivity among employees while supporting Mosaic's pursuit of an incident- and injury-free workplace.

**403-2** Type of injury and rates of injury, occupational diseases, lost days and absenteeism, and total number of work-related fatalities, by region and gender

### **403-3** Workers with high incidence or high risk of diseases related to their occupation

Mosaic follows United States Occupational Safety and Health Administration (OSHA) standards to calculate recordable injury frequency rates (RIFR) on a global basis. An OSHA recordable injury is an occupational injury that requires medical treatment that is more than simple first aid. The most common injuries are: cuts/lacerations/ avulsions; fractures; sprains/strains; pain; and bruises/contusions.

Lost time incident frequency rate (LTIFR) calculates the frequency rate of lost time injuries. This measure is an indicator of incident severity. Lost days begin the day after the lost time incident occurs and calendar days are counted, with no exception for weekends, holidays, vacation or scheduled time off.

Though not a global safety metric for Mosaic, we are providing MSHA all-incidence rate to satisfy a request from the SASB Metals & Mining Sustainability Accounting Standard. As reported here, total recordable incidence frequency rate (TRIFR), differs slightly from MSHA all-incidence rate in that it includes the prescribing of medication for ailments. The MSHA all-incidence rate excludes incidents involving the prescription of medication except when it is related to an eye injury. In 2019, there was one such incident of prescription of medication that met the definition to be included in TRIFR but not MSHA all-incidence rate.

Occupational disease rate (ODR) accounts for illnesses caused by the work environment including respiratory conditions heatstroke or heat stress, and hearing loss. Employees who work in areas with elevated noise in the operational environment are at potential risk for hearing loss. To mitigate this risk, Mosaic uses engineering controls to reduce the noise of our equipment; where this cannot feasibly be accomplished, Mosaic requires the use of hearing protection or even double hearing protection.

Contractor safety is also a priority. We select, screen and audit contractors using the ISNetworld Rating – a global system in which contractors and suppliers report their safety performance and conformance to regulatory and internal health, safety and procurement requirements. In 2018 Mosaic implemented the use of the ISN Site Tracker Tool to further drive contractor safety improvements, improve accountability and accurately track safety performance.

There were no work-related fatalities in 2019.

#### RECORDABLE INJURY FREQUENCY RATE 2019 (RIFR)

COUNTRY	EMPLOYEE	CONTRACTOR	TOTAL MOSAIC
U.S.	0.44	0.42	0.43
Canada	0.51	0.50	0.51
Brazil	0.34	0.15	0.22
International	0.00	0.00	0.00
Total	0.39	0.24	0.30

Note: Data represents companywide performance and includes Brazil facilities that were acquired in 2018.

#### LOST DAY RATE 2019 (LTIFR)

COUNTRY	EMPLOYEE	CONTRACTOR	TOTAL MOSAIC
U.S.	0.12	0.08	0.10
Canada	0.09	0.06	0.08
Brazil	0.09	0.03	0.05
International	0.00	0.00	0.00
Total	0.10	0.04	0.07

Note: Data represents companywide performance and includes Brazil facilities that were acquired in 2018

#### OCCUPATIONAL DISEASE RATE 2019 (ODR)

COUNTRY	EMPLOYEE	CONTRACTOR	TOTAL MOSAIC
U.S.	0.05	0.11	0.08
Canada	0.00	0.00	0.00
Brazil	0.00	0.00	0.00
Total	0.01	0.02	0.02

Note: Data represents companywide performance and includes Brazil facilities that were acquired in 2018.

#### TOTAL RECORDABLE INJURY/ILLNESS FREQUENCY RATE 2019 (TRIFR)

COUNTRY	EMPLOYEE	CONTRACTOR	TOTAL MOSAIC
U.S.	0.49	0.53	0.51
Canada	0.51	0.50	0.51
Brazil	0.34	0.15	0.22
International	0.00	0.00	0.00
Total	0.41	0.26	0.32

Note: Data represents companywide performance and includes Brazil facilities that were acquired in 2018.

### **ABSENTEEISM RATE 2019**

EMPLOYEE	TOTAL % OF TIME ABSENT
Phosphates*	3%
Potash*	7%
Mosaic Fertilizantes**	4%

NOTE: Figures reported represent absenteeism across diverse leave categories – not only those related to occupational health, safety or diseases. Phosphates and Potash totals include employees on short-term disability leave. In China and India, all full-time Mosaic employees are salaried, and absenteeism is accounted for per their respective HR policies.

\*Data for hourly and salary non-exempt employees only.

\*\*Mosaic Fertilizantes percentage represents absenteeism for employees in Brazil and Paraguay.

### 403-4 Health and safety topics covered in formal agreements with trade unions

Mosaic conducts business activities in a manner intended to protect the health and safety of its employees, contractors, customers and communities. One hundred percent of our union contracts in the United States, Canada and Brazil cover health and safety topics. Please see **102-41** for more information on the number of employees covered by collective bargaining agreements. Topics covered include supply of personal safety equipment, medical examinations, incident reporting and investigation, rights to refuse unsafe work and health and safety committees.

### **Management Approach: Training and Education**

One of Mosaic's strategic priorities is to invest in people, and we are committed to providing the environment, development opportunities and compensation to ensure that Mosaic is a company where employees are proud to work and grow.

Mosaic employees are encouraged to continually learn and improve their skills. With management support, we offer a companywide educational reimbursement program to help employees in each of our operating countries better meet their current job responsibilities, as well as prepare for future career opportunities within our company. Our internal training opportunities also support the continuous development of Mosaic employees at all levels:

- Leadership
- · Professional and career development
- · Environmental, health and safety (EHS) training
- · Equipment and maintenance training
- Continuous improvement

### 404-1 Average hours of training per employee by gender and employee category

COURSE TITLE	HOURLY	SUPPORT	PROFESSIONAL	LEADERSHIP	STRATEGIC	SENIOR	TOTAL	HOURS FEMALE	HOURS
EHS Training	347,309	19,775	69,071	24,113	1,242	35	461,546	1.29	1.58
Leadership Professional Development	6,004	4,664	19,757	13,363	1,160	18	44,966	2.69	2.50
Legal Compliance Training	2,574	5,013	7,436	3,784	479	70	19,357	1.3	1.19
Operations & Maintenance Training	92,495	3,115	21,605	10,474	157	5	127,851	2.68	3.23
Other	13,886	1,185	3,385	1,201	155	10	19,822	2.3	4.19
Total Growing U	462,268	33,753	121,255	52,936	3,193	138	673,542	1.6	1.8
Total Other							98,084		
Grand Total							771,626		

NOTE: "Total other" includes hours associated with training opportunities that are not currently housed in our companywide system. Those hours include: 80,160 hours of apprenticeship training; 1,614 hours of training for India employees across a variety of topics; and 16,310 hours for employees in Brazil in the following topics: 2,149 – EHS, 6,826 – Leadership, 7,335 – SAP, finance and customer service.

### **404-2** Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings

As part of Mosaic's priority to invest in people, we offer core leadership programs designed to engage and empower employees; develop leadership skills and assist with managing teams; and drive strong business results. Mosaic offers training courses to developing leaders that are mapped to Mosaic's ten leadership model competencies. In 2019, more than 500 leaders participated in the Mosaic core leadership programs for first-line, mid-level and senior leaders. We also continued the success of our enterprise high potential Accelerated Development Program. As it relates to career transitions, Mosaic provides employees with helpful planning tools, calculators, articles, videos and webcasts, in addition to optional services provided by our third-party vendors to help plan for retirement. When a reduction in our workforce occurs, we provide comprehensive career transition services to employees to help ease the stress that accompanies job loss.

### **404-3** Percentage of employees receiving regular performance and career development reviews, by gender and employee category

As part of our strategic priority to develop, engage and empower our people, we have a performance management process called EDGE: Evaluating, Developing and Growing Excellence. Our performance management process has evolved to include scaled competencies, goal alignment, and an emphasis on employee and career development. In addition, we offer tuition reimbursement programs to support continued education for Mosaic employees. In 2019, approximately 450 employees received financial assistance to continue their education through Mosaic's tuition reimbursement program.

### EMPLOYEES RECEIVING REGULAR PERFORMANCE AND CAREER DEVELOPMENT REVIEWS BY GENDER 2019

COUNTRY	FEMALE	MALE	TOTAL
Performance Reviews Given	1,125	2,652	3,777
Performance Reviews Received	94%	95%	95%

NOTE: Represents percent of reviews conducted for eligible employees.

### Management Approach: Non-discrimination, Freedom of Association and Collective Bargaining, Child Labor, Forced or Compulsory Labor and Rights of Indigenous Peoples

As a signatory to the United Nations Global Compact, The Mosaic Company is committed to the protection and advancement of human rights. Mosaic's **Code of Business Conduct and Ethics** forms the basis of our **Commitment to Human Rights**.

### 406-1 Total number of incidents of discrimination and corrective actions taken

In 2019 there were a total of 10 incidents involving complaints of discrimination that were filed with external agencies:

- In the United States, there were nine charges filed with the United States Equal Opportunity Commission (EEOC). Of these, seven were closed in 2019: four were dismissed without cause; three were dismissed without cause by the EEOC but subsequently settled without an admission of wrongdoing by Mosaic in litigation or arbitration; two remain open pending a decision by the EEOC.
- In Brazil and Paraguay, one labor claim from 2018 remains open pending a resolution and one was filed in 2019.

In 2019 there were nine internal reports of discrimination:

- In the United States, there were two internal reports of discrimination/harassment that were substantiated in part. Both issues were determined to involve inappropriate behavior that did not rise to the level of discrimination/ harassment and resulted in counseling the individuals involved. Both incidents are closed and no longer subject to action.
- In Canada, there was one internal report of discrimination/harassment that was substantiated. Discipline was issued and the matter is closed and no longer subject to action.
- In Brazil, there were a total of 6 internal reports of discrimination/harassment. Five of these reported incidents involved protected union activity and were substantiated in part. Appropriate action was taken and all matters are closed and not subject to further action. One incident not related to union activity was substantiated. The offending employee was terminated, and the matter is closed and not subject to further action.

# **407-1** Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and measures taken to support these rights

Mosaic does not have any operations in which the right to exercise freedom of association and collaborative bargaining are identified as a significant risk. Mosaic does not discriminate based on association, per our Commitment to Human Rights, which is guided by the Universal Declaration of Human Rights (UDHR), the most widely recognized definition of human rights and the responsibilities of national governments; the International Labour Organization (ILO) Declarations on Fundamental Principles and Rights at Work; and the Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises. Per our Commitment to Human Rights, Mosaic aims to strengthen and enforce human rights in our policies and operations globally, including in our supply chain.

### **408-1** Operations and suppliers identified as having significant risk for incidents of child labor, and measures taken to contribute to the effective abolition of child labor

# **409-1** Operations and suppliers identified as having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of all forms of forced or compulsory labor

Mosaic does not have any operations that are identified as a significant risk for child labor or forced or compulsory labor practices. Mosaic abides by all applicable child labor laws, as well as our global hiring and employment policies. In the United States and Canada we do not employ anyone under the age of 18. We do not tolerate forced or compulsory labor. Mosaic complies with all statutory requirements in the locations where we operate, as well as our own employment policies, including our Commitment to Human Rights, which is guided by the UDHR, the most widely recognized definition of human rights and the responsibilities of national governments; the ILO Declaration on Fundamental Principles and Rights at Work; and the OECD Guidelines for Multinational Enterprises. Per our Commitment to Human Rights, Mosaic expects all of our business partners to comply with labor and employment laws in the countries where we operate, including laws pertaining to child labor and forced labor.

### **411-1** Total number of incidents of violations involving rights of Indigenous peoples and actions taken

### MM5 Number of operations taking place in or adjacent to Indigenous peoples' territories

Although Mosaic does not conduct any operations on, or immediately adjacent to, any lands of Indigenous Peoples, in Canada there are four First Nations reserves (Cowessess First Nation, Ochapowace First Nation, Kahkewistahaw First Nation, and Sakimay First Nation) that are located within 100 kilometers of our Esterhazy, Saskatchewan potash mining operations. In addition, Cowessess First Nation leases approximately 160 acres of mineral lands to Mosaic for potash mining purposes, and Mosaic may from time to time enter into additional agreements to lease mineral rights owned by other First Nations. Mosaic has had no reported incidents related to violations involving rights of Indigenous Peoples for the period covered in this report.

In Brazil there are three Quilombola communities—made up of approximately 650 people—residing near the company's Potash operations in the state of Sergipe. There were no reported incidents related to violations of the Quilombolas' rights in the period covered by this report. As a legal requirement prior to future Potash project development in Sergipe, Mosaic participated in a process with the Quilombola population to develop the Basic Environmental Plan for Quilombos (PBAQ) of Terra Dura, Patioba and Canta Galo. This collaborative process, as well as the outcome, were overseen and validated by public authorities. An Indigenous community of Mbya Guarani resides near our Fospar facility in Brazil. In 2019, we engaged this group in efforts to help preserve their customs and culture. There were no reported incidents related to violations of their rights in the period covered by this report.

We do not have any reserves in or near areas of conflict.

### **Management Approach: Local Communities**

Our local communities are our homes, and we have a vested interest in their sustainability. We understand that for Mosaic to prosper, so must our communities. We support formal and informal communication channels to connect our employees, communities, partners and customers. Examples include our Community Advisory Panels (CAPs) in Central Florida, as well as regional and international microsites intended as open lines of communication between Mosaic and local communities.

### **413-1** Percentage of operations with implemented local community engagement, impact assessments, and development programs

In alignment with Mosaic's Environment, Health and Safety policies, we are committed to conducting all business activities in a manner that protects the environment and the health and safety of our employees, our contractors, our customers and the public.

Our guiding principles—which state that we are responsible, innovative, collaborative and driven—define how we conduct business, how we interact with colleagues, and how we treat our communities and planet. Accordingly, 100 percent of our operations have impact assessment and development programs. We employ a variety of approaches to systematically assess and manage the diverse impacts of industry on the various communities in which we operate.

### **Sustaining Our Global and Local Operations**

We serve customers in approximately 40 countries. We mine phosphate rock in Florida and Brazil.

We process rock into finished phosphate products at facilities in Florida, Louisiana and Brazil. We mine potash in Saskatchewan, New Mexico and Brazil. We have other production, blending or distribution operations in Brazil, China, India and Paraguay, and we are majority owner of a strategic equity investment in a phosphate rock mine in the Bayovar region in Peru. We also have a strategic equity investment in a joint venture that operates phosphate rock mine and chemical complexes in the Kingdom of Saudi Arabia. View a list of **our locations** (65 as of the date of this report).

Although Mosaic continues to refine and adapt community investment programs throughout South America and Asia, due to the nature of our business and potential impact, this report heavily emphasizes Central Florida in the United States; Saskatchewan, Canada; and Brazil.

Our operations in Saskatchewan, Central Florida and Brazil work diligently to engage local communities. Mosaic's engagement within local communities includes monthly meetings with a series of CAPs, civic organizations, elected officials, civil servants and other opinion leaders. Mosaic reaches the broader community through print, broadcast, billboard and digital ads, news and social media outlets, direct mail, and public education initiatives. When the business plans to expand operations, we host community forums and participate in public hearings convened by local and regional governments.

### **Assessing Our Environmental Impact**

Mosaic is committed to conducting and reporting the results of environmental impact assessments. In April 2013, the final Areawide Environmental Impact Statement (AEIS) on Phosphate Mining in the Central Florida District was released by the U.S. Army Corps of Engineers (ACOE) for public review. Administered by the ACOE in compliance with the National Environmental Policy Act, this process analyzed the environmental scope and potential impacts of phosphate mining in Central Florida.

The Mosaic Potash segment conducts regular environmental impact assessments, reporting the findings to the Saskatchewan Ministry of Environment. All environmental impact assessments have been submitted and approved to date. Additionally, the Mosaic Potash facilities in Saskatchewan conduct thorough biological assessments of proposed expansion sites, such as the assessments for any new tailings expansions, as well as the K3 site at Esterhazy. Each of these assessments includes field surveys to identify rare species of plants and animals of special concern to identify if mitigation programs are required.

### **Developing and Consulting In Our Communities**

The Mosaic Company, The Mosaic Company Foundation and The Mosaic Institute in Brazil make investments in our global communities through philanthropic grants, employee engagement and in-kind donations. Combined contributions in 2019 were more than \$12 million.

In 2019, Mosaic operations in Florida committed more than \$4.1 million, and operations in Saskatchewan committed more than \$4.3 million to enrich and improve communities where we have offices and operations. In Brazil we invested more than \$800,000 in local communities.

Mosaic employs regional, full-time public affairs (PA) staff to support all communities where we have an operating footprint. Mosaic PA staff are committed to maintaining an open dialogue with the people in our communities, assessing local needs and building partnerships designed to improve community vibrancy for local residents. Independent CAPs help facilitate this work. Underwritten by Mosaic, CAPs serve as a forum for open discussion among representatives of the local community and provide a place for companies to discuss community response to industry developments and plans.

In 2019, Mosaic's Brazil operations completed dam emergency simulations in cooperation with civil defense groups, emergency personnel, municipalities and other stakeholders. Additionally, we engage communities that are potentially impacted or impacted by our operations through programs that build trust and encourage two-way dialogue aimed at addressing environmental issues.

### **Recognizing Indigenous Rights**

In some locations, there are cultural implications to our business that Mosaic addresses through community engagement. Mosaic recognizes the significance of building relationships with First Nation and Métis organizations throughout Saskatchewan. For example, Mosaic partners with the Saskatchewan Indian Institute of Technologies' Mining Industry Prep Programs, which are based in Saskatoon, Yorkton and Regina, to prepare Saskatchewan's Indigenous workforce for careers in mining. We strive to be a thoughtful and engaged neighbor who invests carefully and generously, and, through working with First Nations and Métis communities, we identify strategic opportunities to target grant funding to initiatives and projects that are important to the growth and sustainability in the areas where we operate. In 2016, the potash business segment realigned Indigenous engagement internally by merging the function within Public Affairs in order to create a more holistic outreach approach. Today, our engagement with Indigenous communities blends community investment initiatives with information on career opportunities, environmental responsibility, and opportunities for suppliers by connecting one-on-one with Indigenous communities and organizations, ensuring the right connections within Mosaic are made.

In Brazil we engage Quilombola communities near our potash operations in Sergipe in cultural and educational initiatives aimed at achieving several outcomes: administrative and management training for community leaders and associations; prevention of sexual exploitation of children and adolescents; reduction and avoidance of alcohol and drug use; and support for traditional African festivals. Please see **411-1** and **MM5** for more information.

### **Engaging Our Stakeholders**

Mosaic is committed to stakeholder engagement and public outreach efforts. Through face-to-face meetings, social media, government relations, facility tours and more, Mosaic connects with stakeholders to keep them well informed and engaged with our mission to help the world grow the food it needs.

- Mosaic employees conduct tours of mines and manufacturing facilities for local, state and federal elected officials and staff, customers, investors, students, community leaders, the media, and nonprofit and civic groups throughout the year.
- Mosaic has an engaged social media presence (Twitter, Facebook, YouTube). These media enable us to share information with the general public and engage in conversations about our business, making thousands of impressions on users and community members.

- Mosaic is committed to being an engaged business partner. Mosaic regularly engages its customers in crop nutrient education and business management principles through various events, such as Mosaic's AgCollege, which hosts approximately 250 of Mosaic's strategic customers from the United States, Canada, Mexico, Argentina, Brazil, Australia, Chile, China and India for the premier education, personal growth and leadership development event for fertilizer retailers.
- As a member of The Fertilizer Institute, Fertilizer Canada, the Saskatchewan Mining Association, the Saskatchewan Potash Producers Association and Brazilian Mining Institute, Mosaic presents important information to government groups and decision-makers who directly impact operations, our current expansions, and our investments in our communities.
- In all regions where we have operations, Mosaic participates in ongoing consultation with government, covering topics such as operations updates, the need for infrastructure, consistency surrounding tax, partnership opportunities and Mosaic's approach to sustainability.
- · Stakeholders may reach Mosaic in several different ways.
  - Send comments or questions regarding this report to: mosaic.sustainability@mosaicco.com
  - Contact our Board of Directors via written communication in care of the General Counsel at the address of the Company's executive offices, or by e-mail: **directors@mosaicco.com**

### **413-2** Operations with significant actual and potential negative impacts on local communities

Mosaic provides a great number of economic and social benefits to the local communities in which it operates. However, as with all mining activities, the extraction and beneficiation of phosphate and potash to meet the global demand for mineral fertilizer has the potential to cause environmental impacts. One such impact at our mining facilities in Central Florida is the loss of farm output due to farmland being used for mining. The AEIS noted that Mosaic's mining operations, as forecast for 2011 to 2050, will have a net positive economic impact on the local economy. Any economic effects from losses in farm output would be more than made up for by higher paying employment and economic activity resulting from mining. Additionally, land reclaimed from mining is returned to agricultural uses once released from reclamation requirements.

Mosaic operates in a highly regulated and monitored industry. We work closely with state/provincial and federal officials on operations, expansions and sales to ascertain the environmental impact of industry activities on local communities. Through this collaboration, Mosaic has identified and implemented mitigation opportunities that safeguard local communities from potential negative impact. In Brazil we work closely with communities and local public authorities to communicate risks and safety precautions related to mining dams. These efforts include the formation of action groups that will be trained to recognize and act in emergency situations. In 2019 we completed dam emergency simulations in cooperation with civil defense groups, emergency personnel, municipalities and other stakeholders. Additionally, we engage communities that are potentially impacted or impacted by our operations through programs that build trust and encourage two-way dialogue aimed at addressing environmental issues.

For more information on actual or potential impacts, please see the discussion of risk factors in our 2019 10-K.

### MM6 Number and description of significant disputes relating to land use, customary rights of local communities and indigenous peoples

# **MM7** The extent to which grievance mechanisms were used to resolve disputes relating to land use, customary rights of local communities and indigenous peoples, and outcomes

In our Potash and Mosaic Fertilizantes businesses, there were no disputes related to the land use or customary rights of local communities and indigenous people in 2019. In Brazil, we offered to purchase private property and resettle a family residing near our Catalão facility. Negotiations were not successful and the matter was ultimately resolved through the judicial process.

As it relates to our Phosphates business, we rely on numerous permit approvals to expand our operations or extend operations into new areas. Occasionally, counties and other parties oppose the issuance of some of those required permits by providing comments and live testimony at public hearings or initiating administrative or legal action. We proactively engage in an interactive dialogue with stakeholders, including local communities and interest groups, through means such as our Internet site and community microsites, tours of plants and mines, community advisory panels, town halls, and/or open houses. When significant disputes arise—defined here, for our Phosphates business, as administrative challenges to state-issued permits and litigation filed in federal and state courts—we resolve them through the appropriate channels.

For more information on operating requirements and impacts, and the phosphate mine permitting process in Florida, please see our **2019 10-K**.

### **Management Approach: Public Policy**

As one of the world's leading crop nutrient companies, Mosaic has a responsibility to be actively engaged in the promotion of sound and sustainable public policies. We proactively educate all levels of our employees and government officials on the key issues our company and operations face, our value to operating communities, and our vital role in the world's food production. Mosaic supports elected officials, candidates for public office, and political committees that are supportive of Mosaic's mission and share our views on important issues, such as maintaining a strong North American manufacturing and mining base, recognizing the importance of crop nutrients in maintaining domestic and global food security, and supporting reasonable science-based regulation with responsible environmental stewardship.

Mosaic is a member of organizations such as **The Fertilizer Institute**, which represents the public policy needs of the fertilizer industry in the United States. Please see **102-12**, **102-13** for a list of the industry organizations of which we are members.

### 415-1 Total value of political contributions by country and recipient/beneficiary

Amounts of political contributions are reported based on when Mosaic issued the check, which in some cases may be in a different year than when the check was delivered and reported by the receiving candidate or organization. Contribution levels vary in accordance with election cycles in local and regional communities where we operate.

### POLITICAL CONTRIBUTIONS (U.S. DOLLARS)

	2015	2016	2017	2018	2019
United States	217,139	230,570	252,050	626,614	244,841
Canada*	9,936	48,630	11,400	10,713	11,916

NOTE: In line with local regulations, we do not make political contributions in Brazil. United States political contributions include both "hard" and "soft" money donations, with contributions made from Mosaic Company Political Action Committee (PAC) included in the United States total. The 2018 increase in our United States political contributions reflected an election cycle in which most of Florida's Senate and House offices were up for election, as well as all four Florida statewide elected offices. 2019 in-kind donations for the United States, also reflected within the totals above, were approximately \$800. \*The Canada figures for 2019 were converted to USD using the currency exchange rate on December 31 of the respective calendar year. Since the figures were not converted on the actual date of the contribution, the amount in USD on the date of the contribution may differ slightly from what is reported here.

### MM9 Sites where resettlements took place, the number of households resettled in each, and how their livelihoods were affected in the process

Mosaic's potash and phosphate operations are well established mining regions with 50-plus years of operations. Mosaic purchased private properties near our operations in 2019, but no resettlements of communities in the United States or Canada took place. In Brazil, we offered to purchase private property and resettle a family residing near our Catalão facility. Negotiations were not successful, and the matter was ultimately resolved through the judicial process. As of the date of this report, we are monitoring the potential need for resettlements of households near our Catalão and Patrocinio facilities.

Mosaic has community relations managers who communicate potential impacts from our operations effectively to community associations. Community relations managers also work in conjunction with our land management office to address any questions or concerns raised by the community. Our Potash business's Land and Minerals Department works with individual landowners to ensure the appropriate level of consultation is employed, as is required by provincial legislation and internal policy.

### MM10 Number and percentage of operations with closure plans

Mosaic's phosphate mining is a land intensive operation. As such, our mine sites must go through a detailed permitting process that involves determination and approval of ultimate closure, post-closure care and/or reclamation of our facilities. View **Land & Reclamation** for specific details of our efforts.

Mosaic has plans in place as required by governmental regulations for the closure and post-closure care of our phosphogypsum management systems at eight former and current phosphoric acid manufacturing plants in Florida and Louisiana. Similarly, Mosaic has plans in place as required by governmental regulations for the closure and post-closure care of all its Carlsbad and Saskatchewan mining operations. In Brazil we have closure plans in place as required by governmental regulation facilities, except for one, which is currently under review as part of a lease renewal process with the government.

For specific details on our estimated asset retirement obligations, refer to our 2019 10-K.

## Management Approach: Customer Health and Safety and Marketing and Labeling

Mosaic's Belle Plaine facility has earned the Product Stewardship Excellence certification from the International Fertilizer Association's (IFA) Protect & Sustain Product Stewardship initiative. This certification covers the product life cycle including how products are produced; and how they are developed, sourced, stored, transported and used.

Communications related to the health and safety of Mosaic's products are directed up and down the value chain, such as supplier certification requirements as part of sourcing and procurement of inputs, (material) safety data sheets (M/SDS), labels, registrations, quality/traceability information, training and educational materials.

Mosaic's research and development processes include internal and external research and science-based data generation to advance product advocacy and customer results.

Finally, process improvements include an Environmental Health and Safety Management System that is aligned to ISO 14001/OHSAS 18001 and ANSI-10, enterprise mechanical integrity programs and contractor accountability programs.

We believe Mosaic's products are among the most responsibly sourced in the world, and we are committed to the sustainable manufacturing of our products. For example, in 2015, Mosaic developed improved raw material sourcing guidance for sulfuric acid and zinc to prevent impacts to our products with trace metals.

### 416-1 Assessment of the health and safety impacts of product and service categories

Mosaic has a dedicated agronomy team that conducts field trials to evaluate the performance of our products and promote and support 4R Nutrient Stewardship. In 2019, we conducted 335 small-plot trials in Argentina, Australia, Brazil, Chile, China, Canada, India, Latin America (Mexico to Peru) and the United States.

### **Educational Tools**

Mosaic supports an educational initiative to help the industry understand fertilizer and best management practices.

**CropNutrition.com** is a resource for retailers, growers, crop consultants, universities and media members seeking to better understand soil science, grow healthier crops, and increase productivity and yield—sustainably. Retailers and growers benefit from Mosaic sharing information that will allow them to think progressively about crop fertility.

### **Industry Initiatives**

4R Nutrient Stewardship (4Rs) is about doing everything "right" in applying fertilizer and effectively reducing agriculture's potential for negative externalities. 4R Nutrient Stewardship encompasses science-based fertilizer best management practices to achieve specific cropping system goals, including environmental protection. To achieve those goals, the 4Rs framework promotes a focus on the Right nutrient source, at the Right rate, at the Right time, and in the Right place. Please see **4R Nutrient Stewardship** for more information.

### **Partnerships**

Mosaic established and continues to fund the **Mosaic Fertiliser Technology Research Centre** at the University of Adelaide, Australia. The centre focuses on soil chemistry and fertilizer technology, and uses the latest technology to develop innovative fertilizer formulations to improve nutrient use efficiency.

Mosaic also has a long-term partnership with a globally recognized plant nutrition expert at Sabanci University in Turkey, whose research focus is balanced crop nutrition and nutrient interactions conducted through greenhouse experiments.

### 417-1 Requirements for product and service information and labeling

One hundred percent of Mosaic's products are subject to labeling requirements. We comply with safety, environmental, labeling and registration required by country and local governments where we sell and distribute fertilizer, animal feed and industrial products. Where United States standards are more stringent, we follow those more rigorous standards on the products that we produce both in the United States and for export.

Mosaic provides the required country, state and local product documentation for all shipments. This includes detailed labels, data specification sheets and a safety data sheet (SDS) for all products. These documents provide information about proper product handling, safety precautions and guaranteed analysis. Situations requiring disposal are also addressed in the SDS. For product undergoing vessel transport, the SDS includes certification that the discharge of cargo hold rinsate is not harmful to the marine environment.

As it relates to safe use of our products, Mosaic promotes customer education following the **4R Nutrient Stewardship** framework of the Right nutrient source, applied at the Right rate, at the Right time and at the Right place. Our agronomists share this message worldwide.

### **417-2** Incidents of non-compliance concerning product and service information and labeling

Mosaic has systems to manage, track and monitor incidents related to noncompliance with regulations and voluntary codes concerning product and service information and labeling. We are committed to quality and responsible labeling. We investigate all questions or claims about the labeling or guaranteed analysis of our products and work with the customer and/or appropriate agency to resolve any claims that arise. In 2019, the sum of claims that resulted in penalties totaled approximately \$10,000.



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© 2020 The Mosaic Company We support and promote 4R Nutrient Stewardship: Right Source, Right Rate, Right Time, Right Place.