



2016 Supplemental Environment Metrics

The Mosaic Company's 2016 Sustainability Disclosure adheres to the Global Reporting Initiative's (GRI) G4 Core Sustainability Reporting Guidelines. This supplement provides additional environmental metrics – not covered under the G4 guidelines – and demonstrates our commitment to transparency. We encourage stakeholders to read this supplement in conjunction with our digital 2016 State of the Business Report, www.mosaicco.com/2016stateofthebusinessreport.

Water

Total Water Withdrawals and Intensity by Business Segment

2016 Global Water Withdrawals by Segment Total Water Used by Business Segment						
Megaliters (1,000 m ³)						
Business Segment	Municipal	Reclaimed Water	Groundwater	Surface Water	Total	Total Withdrawal Intensity
Phosphate	813	4,196	57,226	215,066	277,301	0.0291
Potash	0	316	5,893	18,446	24,655	0.0032
International Distribution	101	4,734	1,966	0	6,801	0.0169
Mosaic Total	914	9,247	65,085	233,512	308,757	0.0176

Note: Phosphate surface water withdrawals **include once through cooling water totals**. Total water intensity value measured in megaliters per tonne of finished product. Values include all water withdrawals and differs from Mosaic's freshwater intensity reduction target, as reported in Mosaic's State of the Business Report.



Energy and Emissions

Energy per Tonne Finished Product by Business Segment

2016 Energy Intensity by Segment GJ/Finished Product Tonnes	
Business Segment	
Phosphate	2.37
Potash	3.09
International Distribution	2.25
Mosaic Total	2.68

Note: Energy totals are inclusive of energy generated through cogeneration.

GHG Intensity Metrics

2016 GHG Intensity by Segment Tonnes CO ₂ e/Finished Product Tonnes								
Business Segment	Total GHG ¹	Direct GHG ¹	Indirect GHG ¹	Total CO ₂	Direct CO ₂	Indirect CO ₂	CH ₄	N ₂ O
Phosphate	0.282	0.202	0.080	0.282	0.202	0.080	0.00	0.00
Potash	0.236	0.127	0.109	0.236	0.127	0.109	0.00	0.00
International Distribution	0.170	0.136	0.034	0.171	0.136	0.034	0.00	0.00
Mosaic Total	0.260	0.168	0.092	0.260	0.168	0.092	0.00	0.00

Note: ¹Total, Direct and Indirect GHG values are measured in tonnes CO₂e per tonne of finished product.



Absolute GHG Metrics

2016 Absolute GHGs by Segment								
Million Tonnes CO ₂ e, except CH ₄ and N ₂ O								
Business Segment	Total GHG ¹	Direct GHG ¹	Indirect GHG ¹	Total CO ₂	Direct CO ₂	Indirect CO ₂	CH ₄	N ₂ O
Phosphate	2.69	1.93	0.76	2.69	1.93	0.76	879	995
Potash	1.80	0.97	0.83	1.80	0.97	0.83	1,346	1,243
International Distribution	0.07	0.05	0.02	0.07	0.05	0.02	58	81
Mosaic Total	4.56	2.95	1.61	4.56	2.95	1.61	2,283	2,319
Note: ¹ Total, Direct and Indirect GHG values are measured in million tonnes CO ₂ e; CH ₄ and N ₂ O are presented in tonnes.								