

2016 Supplemental Environmental Metrics

THE MOSAIC COMPANY'S 2016 SUSTAINABILITY REPORT 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

MEGALITERS (1,000 m³)

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
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 differ from Mosaic's freshwater intensity reduction target, as reported in Mosaic's State of the Business Report. Totals may not always add up due to rounding.

Energy and Emissions

ENERGY PER TONNE FINISHED PRODUCT BY BUSINESS SEGMENT

GJ/FINISHED PRODUCT TONNES

Business Segment	
Phosphate	2.37
Potash	3.09
International Distribution	2.25
Total	2.68

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

Greenhouse Gas (GHG) Intensity Metrics

2016 GHG INTENSITY BY SEGMENT

TONNES CO₂e/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
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 CO₂e, EXCEPT CH₄ AND N₂O

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
Total	4.56	2.95	1.61	4.56	2.95	1.61	2,283	2,319

NOTE: ¹Total, Direct and Indirect GHG values are measured in million tonnes CO₂e; CH₄ and N₂O are presented in tonnes.