

Table S1. The Pattern of PM₁₀ data availability across the sites for year 2010–2017.

Province	Site	Site type	2010	2011	2012	2013	2014	2015	2016	2017	
Gauteng	Bodibeng	Traffic			347(95%)	328(90%)					
	Booyesen	Residential			326(89%)		291(80%)				
	Ekandustria	Industrial				261(72%)	309(85%)				
	Elandsfontein	Industrial							304(83%)	325(89%)	
	Etwatwa	Residential			255(70%)						
	Germiston	Residential		293(80%)							
	Leandra	Industrial		293(80%)	275(75%)						
	Newtown	Residential			286(78%)						
	Olievenhoutbosch	Residential			334(91%)						
	Orange Farm	Residential	263(72%)							262(72%)	
	Randwater	Industrial				305(84%)	359(98%)	300(82%)	336(92%)	278(76%)	
	Rosslyn	Industrial			322(88%)	348(95%)	328(90%)				
	Tembisa	Residential		273(75%)							
	Thokoza	Residential		357(98%)							
	Watville	Residential			268(73%)						
	Mpumalanga	Bosjesspruit	Industrial								332(91%)
		Camden	Industrial				349(96%)		298(81%)		302(83%)
Chicken Farm		Industrial								349(95%)	
Club		Industrial			348(95%)	351(96%)	338(93%)		319(87%)	353(96%)	
Embalenhle		Industrial			296(81%)		311(85%)		333(91%)	328(90%)	
Ermelo		Industrial	334(92%)	347(94%)	321(88%)	301(82%)	309(85%)	279(76%)	260(71%)		
Grootvlei		Industrial		359(98%)		340(93%)					
Hendrina		Residential	286(78%)	284(78%)	292(80%)			303(83%)	340(93%)		
Komati		Industrial		310(85%)	313(86%)		254(70%)	310(85%)	278(76%)	314(86%)	
Kriel village		Industrial								301(82%)	
Kwazamokuhle		Residential								290(79%)	
Middleburg		Industrial	299(82%)	270(74%)	346(95%)	334(92%)	306(84%)	343(94%)	299(82%)		
Phola		Industrial				308(84%)	300(82%)		343(94%)	325(89%)	
Secunda	Industrial	317(87%)	293(80%)	264(72%)	338(93%)						

	Verykkop	Industrial				328(90%)			267(73%)	331(90%)
	Witbank	Residential	337(92%)			331(91%)	264(72%)	293(80%)	339(93%)	
Western Cape	Belville	Industrial			301(82%)	348(95%)		338(92%)	305(83%)	396(81%)
	Foreshore	Traffic		284(78%)	325(89%)	344(94%)		284(76%)	354(97%)	329(90%)
	George	Traffic	358(98%)			259(71%)				
	Goodwood	Residential		346(95%)	339(93%)		318(87%)	286(78%)	349(93%)	
	Stellenbosch	Industrial			361(99%)	284(78%)				
	Tableview	Industrial		353(96%)	269(73%)	288(79%)				
	Wallacedene	Residential			337(92%)			298(81%)	334(91%)	354(97%)
KwaZulu-Natal	Brackenham	Residential		363(99%)	366(100%)			360(98%)	346(95%)	332(91%)
	CBD	Traffic		355(97%)	359(98%)	360(99%)		350(96%)	345(94%)	350(96%)
	City Hall	Traffic	342(94%)							
	Esikhaweni	Residential							358(98%)	326(89%)
	Ganges	Residential	277(76%)	344(94%)		307(84%)	292(80%)			
	Ferndale	Residential	330(90%)	305(83%)	256(70%)					