

Table 7.					
Estimate of average and total Kīlauea SO₂ emission rates, 1992-2010					
Note: For Summit data 2008-2010 and East rift zone data for 2008, the uncertainty in the radiative transfer of light through the plume may result in minimum constraint emission rates. Preliminary corrected data is estimate only. Simulated Radiative Transfer DOAS (SRT-DOAS), simulates realistic light paths in and around the volcanic plume containing variable amounts of SO ₂ and aerosols.					
Year	Summit			Preliminary SRT-DOAS corrected	
	Annual SO2 (t/y)	Days of data	Daily SO2 (t/d)	Annual SO2 (t/y)	Daily SO2 (t/d)
1992	7.78E+04	22	210		
1993	7.13E+04	36	200		
1994	7.60E+04	30	210		
1995	8.00E+04	15	220		
1996	6.58E+04	72	180		
1997	3.66E+04	52	100		
1998	4.32E+04	52	120		
1999	3.70E+04	57	100		
2000	3.89E+04	32	110		
2001	3.90E+04	53	110		
2002	3.97E+04	47	110		
2003	4.11E+04	61	115		
2004	3.57E+04	49	100		
2005	5.47E+04	62	150		
2006	5.32E+04	47	145		
2007	5.20E+04	92	140		
2008	3.10E+05	210	850	4.52E+05	1200
2009	3.00E+05	178	820	5.04E+05	1400
2010	1.90E+05	146	520	3.27E+05	900
Abbreviations: t/d=metric tonne (1000 kg)/day, t/y=metric tonne (1000 kg)/year					

Table 7.						
Estimate of av						
Note: For Sumr						
transfer of ligh						
corrected data						
paths in and ar						
Year	East rift zone			Preliminary SRT-DOAS corrected		
	SO2 (t/y)	Days of data	Daily average (t/d)	Annual SO2 (t/y)	Daily SO2 (t/d)	
1992	6.70E+05	11	1840			
1993	5.57E+05	6	1530			
1994	5.36E+05	3	1470			
1995	5.11E+05	3	1400			
1996	6.84E+05	11	1870			
1997	6.50E+05	26	1780			
1998	8.32E+05	44	2280			
1999	4.98E+05	56	1360			
2000	4.90E+05	34	1340			
2001	5.25E+05	43	1380			
2002	5.03E+05	41	1380			
2003	5.19E+05	37	1420			
2004	4.49E+05	45	1230			
2005	8.17E+05	49	2240			
2006	7.34E+05	44	2010			
2007	6.50E+05	103	1780			
2008	8.25E+05	85	2260	9.94E+05	2700	
2009	4.25E+05	67	1160			
2010	2.50E+05	56	690			
Abbreviations: t/						

Table 7.			
Estimate of average annual SO₂ emissions from power plants in the United States, 1992-2010			
Note: For Summary Table, emissions are based on uncorrected data. For detailed data, emissions are based on corrected data. Emissions are in metric tons (t) and are based on annual average power plant emissions.			
Year	Total	Preliminary SRT-DOAS corrected (t/y)	
	t/y	Annual SO ₂ (t/y)	Daily SO ₂ (t/d)
1992	7.48E+05		
1993	6.28E+05		
1994	6.12E+05		
1995	5.91E+05		
1996	7.50E+05		
1997	6.87E+05		
1998	8.75E+05		
1999	5.35E+05		
2000	5.29E+05		
2001	5.64E+05		
2002	5.43E+05		
2003	5.60E+05		
2004	4.84E+05		
2005	8.72E+05		
2006	7.87E+05		
2007	7.02E+05		
2008	1.14E+06	1.45E+06	3960
2009	7.25E+05	9.29E+05	2550
2010	4.40E+05	5.77E+05	1580
Abbreviations: t/			