

National Atmospheric Deposition Program/National Trends Network

2006 Annual & Seasonal Data Summary for Site ID03

Part 1: Summary of Sample Validity and Completeness Criteria

(Printed 08/26/2007)

Site Identification		Sample Validity for Annual Period	
Site Name	Craters of the Moon National Monument	Number of samples	52
Site ID	ID03	Valid Samples	47
State	ID	with precipitation	36
County	Butte	with full chemistry**	29
Operating Agency	NPS-Craters of the Moon NM	without chemistry	7
Sponsoring Agency	NPS-ARD	without precipitation	11
Latitude	43.4605	Invalid Samples	5
Longitude	-113.5551	with precipitation	5
Elevation	1807 m	missing precipitation data	0

Summary Period Information

	<u>Annual</u>	<u>Winter*</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>
First summary period day	01/03/2006	11/29/2005	02/28/2006	05/30/2006	08/29/2006
Last summary period day	01/03/2007	02/28/2006	05/30/2006	08/29/2006	11/28/2006
Summary period duration	365	91	91	91	91
Number of samples	52	13	13	13	13
Measured precipitation (cm)	22.5	16.6	10.4	2.1	6.0
Valid samples with full chemistry**	29	9	8	5	9
Valid field pH measurements	--	--	--	--	--

NADP/NTN Completeness Criteria

	<u>Annual</u>	<u>Winter*</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>
1.Summary period with valid samples (%)	90	85	86	100	100
2.Summary period with precip coverage (%)	100	100	100	100	100
3.Measured precipitation with valid samples (%)	93	49	90	100	100
4.Collector efficiency (%)	85	77	93	97	82
Precip with full chemistry and valid field pH (%)	--	--	--	--	--

* = Data do not meet NADP/NTN Completeness Criteria for this period.

** = Valid samples for which all Laboratory Chemical measurements were made (The ONLY samples described by the percentile distributions in the Statistical Summary of Precipitation Chemistry for Valid Samples).

*** = Measured precipitation for sample periods during which precipitation occurred and for which complete valid laboratory chemistry data are available

**National Atmospheric Deposition Program/National Trends Network
2006 Annual & Seasonal Data Summary for Site ID03
Part 2: Statistical Summary of Precipitation Chemistry for Valid Samples**

Precipitation-Weighted Mean Concentrations												
	Ca	Mg	K	Na	NH4	NO3	Cl	SO4	H(lab)	H fld)	pH(lab)	pH fld)
	mg/L											
Annual	0.149	0.015	0.024	0.041	0.372	0.659	0.066	0.399	2.36E-03	--	5.63	--
Winter*	0.045	0.005	0.006	0.022	0.079	0.269	0.028	0.117	3.23E-03	--	5.49	--
Spring	0.147	0.014	0.011	0.048	0.279	0.565	0.058	0.398	2.42E-03	--	5.62	--
Summer	0.274	0.031	0.066	0.075	0.892	1.324	0.155	0.704	1.07E-03	--	5.97	--
Fall	0.155	0.016	0.038	0.027	0.491	0.724	0.063	0.439	2.03E-03	--	5.69	--
Deposition												
	Ca	Mg	K	Na	NH4	NO3	Cl	SO4	H(lab)	H fld)	pH(lab)	pH fld)
	kg/ha											
Annual	0.336	0.034	0.054	0.092	0.839	1.485	0.149	0.899	5.31E-03	--	--	--
Winter*	0.075	0.008	0.010	0.036	0.131	0.446	0.046	0.194	5.36E-03	--	--	--
Spring	0.154	0.015	0.011	0.050	0.291	0.590	0.061	0.416	2.52E-03	--	--	--
Summer	0.058	0.007	0.014	0.016	0.188	0.279	0.033	0.148	2.25E-04	--	--	--
Fall	0.092	0.010	0.023	0.016	0.293	0.432	0.038	0.262	1.21E-03	--	--	--
Weekly Sample Concentrations												
	Ca	Mg	K	Na	NH4	NO3	Cl	SO4	H(lab)	H fld)	pH(lab)	pH fld)
	mg/L											
Minimum value	0.012	0.002	0.002	0.003	0.004	0.054	0.008	0.024	2.57E-04	--	4.58	--
Percentile 10	0.040	0.004	0.003	0.008	0.007	0.145	0.023	0.086	3.63E-04	--	5.36	--
Percentile 25	0.060	0.007	0.007	0.015	0.102	0.308	0.030	0.146	7.46E-04	--	5.60	--
Percentile 50	0.122	0.015	0.015	0.028	0.248	0.741	0.058	0.443	1.29E-03	--	5.89	--
Percentile 75	0.296	0.030	0.035	0.072	0.486	1.039	0.136	0.572	2.53E-03	--	6.13	--
Percentile 90	0.555	0.060	0.141	0.121	1.383	2.284	0.205	1.472	4.37E-03	--	6.44	--
Maximum value	0.944	0.081	0.149	0.156	1.598	2.867	0.248	1.769	2.63E-02	--	6.59	--
Arithmetic mean	0.196	0.020	0.030	0.043	0.408	0.731	0.075	0.446	2.23E-03	--	5.65	--
Arith. std dev	0.182	0.019	0.043	0.039	0.445	0.599	0.062	0.392	3.11E-03	--	--	--
Below detection	0	0	0	0	1	0	0	0	--	--	--	--
Other Parameters						Annual and Seasonal Equivalence Ratios						
	Measured Precipitation*** mm	Conduc- tivity uS/cm	Equivalence Ratios			Annual	SO4 NO3	SO4+NO3 H	Cation Anion			
			SO4 NO3	SO4+NO3 H	Cation Anion							
Minimum value	0.33	1.6	0.14	0.77	1.03	Annual	0.78	8.04	1.64			
Percentile 10	1.27	2.3	0.34	1.47	1.11	Winter*	0.56	2.10	1.50			
Percentile 25	2.54	3.2	0.48	2.94	1.34	Spring	0.91	7.21	1.51			
Percentile 50	4.59	5.1	0.75	8.38	1.54	Summer	0.69	33.62	1.77			
Percentile 75	10.16	9.1	1.02	40.39	2.00	Fall	0.78	10.25	1.79			
Percentile 90	17.78	15.0	1.80	166.63	2.51							
Maximum value	22.86	21.9	2.68	235.03	2.66							

Please see page 1 for footnotes.