

National Atmospheric Deposition Program/National Trends Network
2009 Annual & Seasonal Data Summary for Site NM01
Part 1: Summary of Sample Validity and Completeness Criteria
(Printed 10/31/2010)

Site Identification		Sample Validity for Annual Period	
Site Name	Gila Cliff Dwellings National Monument	Number of samples	51
Site ID	NM01	Valid Samples	47
State	NM	with precipitation	27
County	Catron	with full chemistry**	24
Operating Agency	New Mexico ED-AQB	without chemistry	3
Sponsoring Agency	EPA/New Mexico ED-AQB	without precipitation	20
Latitude	33.2203	Invalid Samples	4
Longitude	-108.2347	with precipitation	4
Elevation	1772 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	12/30/2008	12/03/2008	03/03/2009	06/02/2009	09/01/2009
Last summary period day	12/30/2009	03/03/2009	06/02/2009	09/01/2009	12/02/2009
Summary period duration	365	90	91	91	92
Number of samples	51	12	12	13	13
Measured precipitation (cm)	25.1	4.3	3.3	11.6	5.9
Valid samples with full chemistry**	24	5	4	7	8
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 (%)	92	83	86	91	100
2.Summary period with precip coverage (%)	100	100	100	100	100
3.Measured precipitation with valid samples (%)	94	33	73	99	100
4.Collector efficiency (%)	103	101	112	102	101
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

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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	0.25	0.025	0.028	0.076	0.27	0.85	0.12	0.64	5.25E-03	--	5.28	--
Winter*	0.14	0.024	0.026	0.157	0.14	0.73	0.22	0.42	6.44E-03	--	5.19	--
Spring*	0.21	0.019	0.024	0.055	0.27	0.82	0.08	0.67	4.90E-03	--	5.31	--
Summer	0.16	0.014	0.023	0.039	0.26	0.93	0.06	0.54	6.15E-03	--	5.21	--
Fall	0.46	0.050	0.037	0.157	0.37	1.12	0.23	1.03	6.05E-03	--	5.22	--
Deposition												
	Ca	Mg	K	Na	NH4	NO3	Cl	SO4	H(lab)	H(fld)	pH(lab)	pH(fld)
	kg/ha											
Annual	0.63	0.063	0.070	0.191	0.67	2.14	0.29	1.61	1.32E-02	--	--	--
Winter*	0.06	0.010	0.011	0.067	0.06	0.31	0.10	0.18	2.77E-03	--	--	--
Spring*	0.07	0.006	0.008	0.018	0.09	0.27	0.03	0.22	1.59E-03	--	--	--
Summer	0.18	0.016	0.027	0.045	0.30	1.08	0.07	0.63	7.15E-03	--	--	--
Fall	0.27	0.030	0.022	0.093	0.22	0.66	0.14	0.61	3.57E-03	--	--	--
Weekly Sample Concentrations												
	Ca	Mg	K	Na	NH4	NO3	Cl	SO4	H(lab)	H(fld)	pH(lab)	pH(fld)
	mg/L											
Minimum value	0.02	0.002	0.001	0.007	0.02	0.17	0.02	0.09	8.51E-05	--	4.63	--
Percentile 10	0.05	0.004	0.006	0.008	0.02	0.19	0.03	0.14	4.56E-04	--	4.95	--
Percentile 25	0.10	0.010	0.010	0.023	0.07	0.40	0.05	0.37	3.24E-03	--	5.16	--
Percentile 50	0.20	0.019	0.027	0.043	0.18	0.95	0.08	0.75	5.01E-03	--	5.30	--
Percentile 75	0.38	0.032	0.039	0.116	0.42	1.33	0.18	1.04	6.84E-03	--	5.49	--
Percentile 90	1.75	0.126	0.096	0.404	0.51	1.74	0.59	1.19	1.14E-02	--	6.42	--
Maximum value	2.66	0.337	0.142	0.860	0.62	2.31	1.12	1.68	2.34E-02	--	7.07	--
Arithmetic mean	0.33	0.036	0.031	0.115	0.24	0.92	0.17	0.69	5.94E-03	--	5.23	--
Arith. std dev	0.54	0.069	0.030	0.195	0.18	0.50	0.26	0.42	4.83E-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									
			SO4 NO3	SO4+NO3 H	Cation Anion		SO4 NO3	SO4+NO3 H	Cation Anion			
Minimum value	0.25	3.0	0.50	0.71	1.01	Annual	0.97	5.18	1.27			
Percentile 10	1.02	3.4	0.56	1.39	1.06	Winter*	0.74	3.17	1.14			
Percentile 25	2.10	4.0	0.64	2.24	1.11	Spring*	1.05	5.54	1.18			
Percentile 50	6.22	8.0	1.00	5.38	1.15	Summer	0.76	4.28	1.13			
Percentile 75	13.78	9.9	1.36	10.85	1.39	Fall	1.18	6.52	1.33			
Percentile 90	30.73	17.5	1.64	173.86	2.09							
Maximum value	31.75	22.0	2.02	538.05	2.66							

Please see page 1 for footnotes.