

Vital Signs Summary Table - Craters of the Moon National Monument and Preserve (2009)

UCBN Vital Sign	Measures	Management Unit	Current Condition	Data Source
Air Quality				
	Ozone (Av 3 yr 4th High 8-hr)		0.40 ppb/yr	1
	Ammonium annual deposition		0.839 kg/ha (2006)	2
	Nitrate annual deposition		1.485 kg/ha (2006)	2
	Sulfate annual deposition		0.899 kg/ha (2006)	2
Limber Pine				
	Trees infected with white pine blister rust (#)		0	8
Water Chemistry				
	Temp (24 hr max - June)	Little Cottonwood		6
	Specific Conduct (24 hr mean-June)	Little Cottonwood		6
	D.O. (24 hr min - June)	Little Cottonwood		6
	pH (24 hr max - June)	Little Cottonwood		6
	pH (24 hr min - June)	Little Cottonwood		6
	Turbidity (24 hr max - June)	Little Cottonwood		6
Aquatic Macroinvertebrates				
	Species richness	Little Cottonwood		3,6
	% dominant family	Little Cottonwood		6
	% EPT	Little Cottonwood		6
	Hilsenhoff Biotic Index [HBI]	Little Cottonwood		6
	% predators	Little Cottonwood		6
	% shredders	Little Cottonwood		6
	% scrapers	Little Cottonwood		6
	% gatherers	Little Cottonwood		6
Invasive/Exotic Plants				
	Cheatgrass (% frequency)	Chariot Fire	98	5
	Cheatgrass(% plots>25% cover)	Chariot Fire	56	5
	Cheatgrass (% frequency)	Sunset Cone	4	5
	Cheatgrass(% plots>25% cover)	Sunset Cone	2	5
	Cheatgrass (% frequency)	Paddelford Flat	46	5
	Cheatgrass(% plots>25% cover)	Paddelford Flat	4	5
	Cheatgrass (% frequency)	Sand Kipuka	94	5
	Cheatgrass(% plots>25% cover)	Sand Kipuka	64	5

Vital Signs Summary Table - Craters of the Moon National Monument and Preserve (2009)-CONT'D

UCBN Vital Sign	Measures	Management Unit	Current Condition	Data Sources
Sagebrush-steppe (% plots >25% cover)				
	Bare ground	Chariot Fire	0	5
	Bare ground	Sunset Cone	6	5
	Bare ground	Paddelford Flat	2	5
	Bare ground	Sand Kipuka	2	5
	Perennial forbs	Chariot Fire	6	5
	Perennial forbs	Sunset Cone	10	5
	Perennial forbs	Paddelford Flat	3	5
	Perennial forbs	Sand Kipuka	18	5
	Big sagebrush	Chariot Fire	0	5
	Big sagebrush	Sunset Cone	44	5
	Big sagebrush	Paddelford Flat	2	5
	Big sagebrush	Sand Kipuka	16	5
	Bluebunch wheatgrass	Chariot Fire	2	5
	Bluebunch wheatgrass	Sunset Cone	12	5
	Bluebunch wheatgrass	Paddelford Flat	0	5
	Bluebunch wheatgrass	Sand Kipuka	0	5
	Steppe bluegrass	Chariot Fire	12	5
	Steppe bluegrass	Sunset Cone	4	5
	Steppe bluegrass	Paddelford Flat	8	5
	Steppe bluegrass	Sand Kipuka	18	5
Pika Occupancy				
	Proportion of area occupied	Monument	35	7
	Proportion of area occupied	Huddle's Hole	67	7
	Proportion of area occupied	Laidlaw Park	0	7
	Proportion of area occupied	Eastside	0	7

1 2006 Annual Performance & Progress Report: Air Quality in National Parks

(http://www.nature.nps.gov/air/Pubs/pdf/gpra/GPRA_AQ_ConditionsTrendReport2006.pdf)

2 National Atmospheric Deposition Program/National Trends Network - 2006 Annual & Seasonal Data Summary for Site ID03, Part 1: Summary of Sample Validity and Completeness Criteria (8/26/2007)

(<http://nadp.sws.uiuc.edu/ads/2006/ID03.pdf>)

3 UCBN Natural Resource Condition Assessment (Bell et al. 2009,

(<http://science.nature.nps.gov/im/units/ucbn/otherprojects/nrca/index.cfm>)

4 UCBN Aspen Monitoring Annual Report (Strand et al. 2008,

(<http://science.nature.nps.gov/im/units/ucbn/reports/index.cfm>)

5 UCBN Sagebrush-steppe Monitoring Annual Report (Rodhouse 2009,

(<http://science.nature.nps.gov/im/units/ucbn/reports/index.cfm>)

6 UCBN Water Quality Monitoring Annual Report (Starkey et al. 2010,

<http://science.nature.nps.gov/im/units/ucbn/reports/index.cfm>)

7 UCBN/CRMO pika focal species inventory (Shardlow and Rodhouse 2007; Rodhouse et al. in review (submitted September 2009);<http://science.nature.nps.gov/im/units/ucbn/reports/reports.cfm>)

8 UCBN limber pine pilot data - July 2009. Available upon request from UCBN office