

Vital Signs Summary Table - City of Rocks National Reserve (2009)

UCBN Vital Sign	Measures	Management Unit	Current Condition	Data Sources
Water Chemistry				
	Temp (24 hr max - June)	Almo Creek	9.89 °C	1
	Specific Conduct (24 hr mean - June)	Almo Creek	20.7 µS/cm	1
	D.O. (24 hr min - June)	Almo Creek	8.67 mg/L	1
	pH (24 hr max - June)	Almo Creek	7.11 pH Units	1
	pH (24 hr min - June)	Almo Creek	6.95 pH Units	1
	Turbidity (24 hr max - June)	Almo Creek	Unavailable	1
	Temp (24 hr max - June)	Circle Creek	15.6 °C	1
	Specific Conduct (24 hr mean - June)	Circle Creek	305.0 µS/cm	1
	D.O. (24 hr min - June)	Circle Creek	5.7 mg/L	1
	pH (24 hr max - June)	Circle Creek	7.87 pH Units	1
	pH (24 hr min - June)	Circle Creek	7.75 pH Units	1
	Turbidity (24 hr max - June)	Circle Creek	252 NTU	1
	Temp (24 hr max - June)	N Fk Circle Creek	12.3 °C	1
	Specific Conduct (24 hr mean - June)	N Fk Circle Creek	Unavailable	1
	D.O. (24 hr min - June)	N Fk Circle Creek	8.4 mg/L	1
	pH (24 hr max - June)	N Fk Circle Creek	7.54 pH Units	1
	pH (24 hr min - June)	N Fk Circle Creek	7.37 pH Units	1
	Turbidity (24 hr max - June)	N Fk Circle Creek	81 NTU	1
	Temp (24 hr max - June)	S Fk Circle Creek	10.1 °C	1
	Specific Conduct (24 hr mean - June)	S Fk Circle Creek	29.6 µS/cm	1
	D.O. (24 hr min - June)	S Fk Circle Creek	8.84 mg/L	1
	pH (24 hr max - June)	S Fk Circle Creek	7.55 pH Units	1
	pH (24 hr min - June)	S Fk Circle Creek	7.40 pH Units	1
	Turbidity (24 hr max - June)	S Fk Circle Creek	176.1 NTU	1
Aquatic Macroinvertebrates				
	Species richness	Almo Creek		1
	% dominant family	Almo Creek		1
	% EPT	Almo Creek		1
	Hilsenhoff Biotic Index [HBI]	Almo Creek		1
	% predators	Almo Creek		1
	% shredders	Almo Creek		1
	% scrapers	Almo Creek		1
	% gatherers	Almo Creek		1
	Species richness	Circle Creek		1
	% dominant family	Circle Creek		1
	% EPT	Circle Creek		1
	Hilsenhoff Biotic Index [HBI]	Circle Creek		1
	% predators	Circle Creek		1
	% shredders	Circle Creek		1
	% scrapers	Circle Creek		1
	% gatherers	Circle Creek		1

Vital Signs Summary Table - City of Rocks National Reserve (2009) CONTINUED

UCBN Vital Sign	Measures	Management Unit	Current Condition	Data Sources
Aquatic Macroinvertebrates (Continued)				
	Species richness	N Fk Circle Creek		1
	% dominant family	N Fk Circle Creek		1
	% EPT	N Fk Circle Creek		1
	Hilsenhoff Biotic Index [HBI]	N Fk Circle Creek		1
	% predators	N Fk Circle Creek		1
	% shredders	N Fk Circle Creek		1
	% scrapers	N Fk Circle Creek		1
	% gatherers	N Fk Circle Creek		1
	Species richness	S Fk Circle Creek		1
	% dominant family	S Fk Circle Creek		1
	% EPT	S Fk Circle Creek		1
	Hilsenhoff Biotic Index [HBI]	S Fk Circle Creek		1
	% predators	S Fk Circle Creek		1
	% shredders	S Fk Circle Creek		1
	% scrapers	S Fk Circle Creek		1
	% gatherers	S Fk Circle Creek		1
Aspen				
	Aspen stem density (suckers Class I+II)		2652	2
	Aspen stem density (regen Class III+IV)		2167	2
	Aspen stem density (mature Class V)		418	2
	Aspen stem density (dead Class VI)		293	2
	Conifer stem density (seedlings Class I+II)		25	2
	Conifer stem density (saplings Class III+IV)		901	2
	Conifer stem density (mature Class V)		63	2
	Conifer stem density (dead Class VI)		9	2
Invasive/Exotic Plants				
	Cheatgrass (% frequency)	Castle Rocks SP	84	3
	Cheatgrass (% frequency)	CIRO-North	31	3
	Cheatgrass (% frequency)	CIRO-South	47	3
Sagebrush-steppe				
	Bare ground (median % cover)	Castle Rocks SP	2.5	3
	Annual grass (median % cover)	Castle Rocks SP	2.5	3
	Big sagebrush (% frequency)	Castle Rocks SP	70	3
	Bare ground (median % cover)	CIRO-North	15	3
	Annual grass (median % cover)	CIRO-North	0	3
	Big sagebrush (% frequency)	CIRO-North	81	3
	Bare ground (median % cover)	CIRO-South	2.5	3
	Annual grass (median % cover)	CIRO-South	0	3
	Big sagebrush (% frequency)	CIRO-South	60	3

1 UCBN Water Quality Monitoring Annual Report (Starkey et al. 2009, <http://science.nature.nps.gov/im/units/ucbn/reports/index.cfm>)

2 UCBN Aspen Monitoring Annual Report (Strand et al. 2009, <http://science.nature.nps.gov/im/units/ucbn/reports/index.cfm>)

3 UCBN Sagebrush-steppe Monitoring Annual Report (Rodhouse et al. 2008, <http://science.nature.nps.gov/im/units/ucbn/reports/index.cfm>)