

Big Bend Data for Truckee River Benthic Macro-invertebrates collected: 2006-2007

Pyramid Lake Paiute Tribe - Wadsworth, NV

Order	Family	Genus/ species	Habit	TV	FFG	Big Bend Site			Biotic Index		Avg
						2006	2007	Total	2006	2007	B.I.
Plecoptera	Perlodidae	Skwala	Clingers	2	P	1		1	2	0	2
Ephemeroptera	Baetidae	Baetis bicaudatus	Swim/ Clingers	4	cg			0	0	0	0
		Baetis tricaudatus	Swim/ Clingers	6	cg	1392	3641	5033	8352	21846	30198
		Camelobaetidius	Swim/ Clingers	4	cg	43	50	93	172	200	372
		Centroptilum	Swim/ Clingers	2	cg			0	0	0	0
	Heptageniidae	Ironodes	Swim/ Clingers	3	sc	2		2	6	0	6
		Heptagenia	Swim/ Clingers	4	sc	1		1	4	0	4
	Leptophlebiidae	Choroterpes	sprawl/ Clingers	2	cg	3		3	6	0	6
		Paraleptophlebia		4	cg	4		4	16	0	16
	Leptoxyphidae	Tricorythodes	sprawl/ Clingers	5	cg	37	1	38	185	5	190
Trichoptera	Unknown	small trichoptera		4	cf	14		14	56	0	56
	Glossosomatidae	Culoptila	Clingers	2	sc	7		7	14	0	14
	Hydroptilidae	Hydroptila	Clingers	6	sc	12	3	15	72	18	90
		Ochrotrichia	Clingers	4	cg		63	63	0	252	252
		Stactobiella	Clingers	4	sh	8		8	32	0	32
	Hydropsychidae	Cheumatopsyche	Clingers	5	cf	15		15	75	0	75
		Hydropsyche	Clingers	5	cf	982	1924	2906	4910	9620	14530
	Leptoceridae	Oecetis	Climbers/ Clingers	4	P	3	1	4	12	4	16
	Rhyacophilidae	Rhyacophila		1	P	1		1	1	0	1
Coleoptera	Curculionidae	Stenopelmus	Climbers	5	P		1	1	0	5	5
	Elmidae	Adult Elmidae	Clingers	4	cg	1		1	4	0	4
		Cleptelmis	Clingers	4	cg			0	0	0	0
		Heterlimnius	Clingers	4	cg		1	1	0	4	4
		Microcylloepus	Clingers	4	cg			0	0	0	0
		Optioservus	Clingers	4	cg/ sc		3	3	0	12	12
		Zaitzevia	Clingers	4	sc	2	13	15	8	52	60
	Hydrophilidae sp.		Burrower/swimmers	5	P			0	0	0	0
Hemiptera	Hebridae	Hebrus	Climbers/ burrow	8	P		34				
Lepidoptera	Petrophia	confusalis	Clingers	5	sh		2	2	0	10	10
Odonata	Coenagrionidae	Argia	Climbers/ Clingers	7	P	5	3	8	35	21	56

Diptera	Gomphidae	Ophiogomphus	Burrower	4	P				0	0	0	0
	Ceratopogonidae	Bezia	Burrower	6	P				0	0	0	0
	Chironomidae		pupae	Climb/ Clingers	6	cg	15					
		Chironominae	Polypedilum	Climb/ Clingers	6	om	336	879	1215	2016	5274	7290
			Tanytarsus	Climb/ Clingers	6	cf		3	3	0	18	18
		Orthocladinae	Cricotopus	Burrow/ Clingers	7	cg/sh	6	44	50	42	308	350
			Eukieferiella	Sprawlers	8	om	22	97	119	176	776	952
		Tanypodinae	Larsia	Sprawlers	6	P	1		1	6	0	6
			Pentaneura		6	P		11	11	0	66	66
			Procladius	Sprawlers	9	P		7	7	0	63	63
			Thienemannimyia	Sprawlers	6	P	4		0	24	0	0
		Empididae	Hemerodromia	Burrow/Sprawlers	8	P			0	0	0	0
		Simulidae	Prosimilium	Clingers	6	cf		42	42	0	126	126
			Similium	Clingers	8	cf	517	281	798	4136	2248	6384
	Tipulidae	Dicranota	Burrow/Sprawlers	3	P			0	0	0	0	
Other:												
	Hirudinea		Climbers/sprawlers	9	P			0	0	0	0	
	Oligochaeta		Burrower	7	cg	36	7	43	252	49	301	
	Amphipoda	Hyaellidae	Hyaella azteca	Climbers/ Clingers	8	cg		0	0	0	0	
	Decapoda	Astacidae	Pacifastacus	Climbers/ burrow	5	om		0	0	0	0	
	Hydracarina	Acari		Sprawlers	8	P	1	21	22	8	168	176
	Gastropoda	sphaeriidae	sphaerium	Sprawlers	8	gc		3	3	0	24	24
	Pelecypoda	Corbiculidae	Corbicula	Burrower	10	cf		5	5	0	50	50
	Tricladida	Planariidae	Dugesia	Sprawlers	9	P	26	839	865	234	7551	7785
Totals:							3497	7979	11423	5.96	6.11	6.09



Field Crew: Dan Mosley, Bonita Natonabah, Burch Kochamp

Taxonomist: Dan Mosley

Sorter: Bonita Natonabah, Gene Paul (Env Intern)

Equipment: 18 x 10 inch kicknet (500 micron mesh)

YSI 6920 Sonde

BMI Metrics Scores

	2006	2007
Biotic Index	5.96	6.11
Taxa Richness	29	27
EPT Taxa	16	7
EPT Index	0.72	0.71
% Intolerant Taxa	0.4%	0.0%
% Tolerant Taxa	17.5%	16.8%

LTR Biotic Index (B.I.) Values

0.0 - 3.5	Excellent WQ
3.5 - 4.5	Very Good WQ
4.5 - 5.5	Good (alittle polluted)
5.5 - 7.0	Fair (moderately polluted)
7.0 - 8.5	Poor (seriously polluted)
8.5 -10.0	Very Poor (extremely polluted) (aquatic life highly impacted)

Notes: Three 1 sq. ft. BMI samples per riffle reach
 Sample area: 3 sq. ft.
 Total Counts (no sub-sampling)
 Following SOP's of New QAPP

OTHER: Conducted Physical Habitat Assessments,
 collected WQ monitoring data, and
 collected water samples near riffle area.

BMI Metrics Scores (cont.)

	<u>2006</u>	<u>2007</u>
% Dominant Taxa	39.8%	45.6%
% Predators	1.2%	11.5%
% Collectors/ filterers	43.7%	28.3%
% Hydropsychidae	28.5%	24.1%
% Baetidae	41.0%	46.3%
% Chironomidae	11.0%	13.0%
TR IBI Score		

Water Quality

	<u>2006</u>	<u>2007</u>
DRP (mg/L)	0.028	0.078
TP (mg/L)	0.061	0.093
NH ₄ (mg/L)	0.003	0.009
NO ₂ +NO ₃ (mg/L)	0.000	0.006
Temperature ©	19.98	21.86
Specific Cond. (mS/cm)	0.218	0.248
D.O. (mg/L)	9.43	12.27
Turbidity NTU)	9.6	2.0
pH	8.38	8.11
TDS (g/L)	0.142	0.161
Salinity (ppt)	0.10	0.12
TR Flows (cfs)	348	96