

Appendix Vd. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1999 within the San Diego River watershed, San Diego County, California.

<i>Site:</i>	Aliso Creek AC-PPD		Aliso Creek AC-CCR		Arroyo Trabuco ATC-AP		San Juan Creek SJC-74		Murrieta Creek MC-GS		Temecula Creek TC-115		Santa Margarita R. SMR-WGR		Rainb RC
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean
Taxa Richness	12	13	17	12	15	14	10	20	9	22	16	25	11	5	8
Percent Dominant Taxon	48	14	35	23	53	30	52	20	42	22	31	18	55	16	43
Ephemeropteran Taxa	2	0	2	0	2	0	3	0	1	115	3	22	2	0	1
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Trichopteran Taxa	1	0	2	49	0	--	0	--	0	--	2	25	3	22	0
EPT Taxa	3	0	4	27	2	0	3	0	1	115	5	20	5	12	1
EPT Index (%)	62	12	28	69	57	31	57	32	5	167	20	21	68	21	19
Sensitive EPT Index	0	--	0	100	0	--	0	--	0	--	0	--	1	145	0
Percent Baetidae	59	11	18	68	57	31	53	47	5	--	12	18	55	16	19
Percent Hydropsychidae	0	--	2	159	0	--	0	--	0	--	3	29	10	31	0
Dipteran Taxa	3	17	4	0	3	35	1	43	3	0	3	35	3	22	3
Percent Dipteran	28	38	33	2	23	59	2	106	50	15	50	10	20	53	44
Non-Insect Taxa	2	50	3	58	3	17	3	22	4	31	3	57	2	50	2
Percent Non-Insect	4	62	29	82	6	65	34	70	40	46	5	65	7	129	1
Percent Chironomidae	28	38	33	2	23	59	2	106	50	15	50	10	20	53	44
Shannon Diversity	1.5	3	1.8	10	1.5	20	1.4	13	1.6	17	1.9	15	1.4	6	1.3
Tolerance Value	5.2	1	6.5	17	5.3	4	5.6	15	7.1	12	5.7	1	5.2	8	5.8
Percent Intolerant (0-2)	0	--	0	100	0	--	0	--	0	--	0	--	1	151	0
Percent Tolerant (8-10)	4	59	29	83	3	54	30	97	40	49	4	88	5	146	1
Percent Collectors	88	6	76	19	84	7	89	10	60	21	41	25	80	6	29
Percent Filterers	7	88	11	78	10	75	7	52	38	33	53	22	16	28	71
Percent Grazers	3	123	10	62	1	43	0	--	2	138	2	36	2	97	0
Percent Predators	1	113	4	78	5	60	5	135	1	136	4	31	2	59	0
Percent Shredders	0	--	0	--	0	--	0	--	0	--	0	87	0	--	0
Abundance (#/ sample)	3599	38	4597	64	5564	40	7916	30	4187	8	4421	78	6656	16	13224

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	Site: Low Creek	Sandia Creek		Santa Margarita R.		Santa Margarita R.		Santa Margarita R.		San Luis Rey R.		San Luis Rey R.		San Luis Rey R.	
	SC-WGR CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	30	22	16	13	16	18	8	13	5	17	20	17	28	16	17
Percent Dominant Taxon	22	38	31	53	20	24	8	59	30	30	30	37	26	33	51
Ephemeropteran Taxa	0	3	0	3	17	4	0	1	43	3	43	3	0	3	0
Plecopteran Taxa	--	0	--	0	--	0	--	0	--	1	0	0	--	0	--
Trichopteran Taxa	--	4	69	2	50	1	43	0	--	4	0	1	87	2	35
EPT Taxa	0	7	38	5	11	5	11	1	43	8	15	4	16	5	12
EPT Index (%)	81	55	32	82	8	30	19	5	90	65	3	10	57	28	40
Sensitive EPT Index	--	1	111	2	--	1	93	0	--	19	25	1	91	0	98
Percent Baetidae	81	47	37	50	46	27	16	5	90	30	32	3	47	19	69
Percent Hydropsychidae	--	1	147	30	61	1	140	0	--	15	69	0	--	2	60
Dipteran Taxa	33	3	17	2	25	4	16	4	0	2	25	2	25	3	33
Percent Dipteran	7	16	69	10	34	44	25	17	85	8	23	40	34	16	52
Non-Insect Taxa	100	6	10	2	25	2	0	4	27	4	42	6	29	4	43
Percent Non-Insect	132	14	43	1	55	2	63	76	24	25	9	36	36	21	80
Percent Chironomidae	7	16	69	10	34	44	25	17	85	8	23	40	34	16	52
Shannon Diversity	21	2.0	14	1.5	11	2.3	6	1.4	24	2.0	6	1.9	13	1.9	16
Tolerance Value	3	5.5	2	4.7	4	5.3	5	7.5	9	5.4	5	6.4	5	6.0	6
Percent Intolerant (0-2)	--	1	118	3	106	0	--	0	--	19	24	0	--	0	--
Percent Tolerant (8-10)	128	13	45	1	57	2	63	76	25	24	12	36	36	22	74
Percent Collectors	79	71	19	62	29	74	7	91	3	73	11	64	34	56	21
Percent Filterers	32	20	77	37	48	12	31	5	53	17	62	33	78	42	28
Percent Grazers	--	5	89	0	87	0	114	0	--	6	58	0	--	0	--
Percent Predators	97	3	45	0	100	9	28	4	17	4	13	3	152	2	19
Percent Shredders	--	0	99	0	--	5	93	0	--	0	--	0	--	0	--
Abundance (#/ sample)	40	7183	38	10937	89	1929	107	2548	61	1748	9	817	2	961	5

Appendix Vd. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1999 within the San Diego River watershed, San Diego County, California.

Site: R.	San Luis Rey R. SLRR-FR		Keys Creek KC-LR		Loma Alta Creek LAC-CB		Loma Alta Creek LAC-ECR		Buena Vista Cr. BVR-ED		Buena Vista Cr. BVR-SVW		Agua Hedionda AHC-ECR	
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	Cv	Mean	CV
Taxa Richness	12	22	18	11	8	43	10	6	10	10	8	15	17	9
Percent Dominant Taxon	40	31	41	39	53	18	34	37	63	25	60	10	45	34
Ephemeropteran Taxa	2	35	1	43	0	--	1	0	2	35	1	100	2	25
Plecopteran Taxa	0	--	1	0	0	--	0	--	0	--	0	--	0	--
Trichopteran Taxa	0	--	4	25	0	--	0	--	1	0	0	--	0	--
EPT Taxa	2	50	6	24	0	--	1	43	3	22	1	100	2	25
EPT Index (%)	5	71	54	35	0	--	3	124	16	61	1	113	11	62
Sensitive EPT Index	0	--	12	67	0	--	0	--	0	--	0	--	0	--
Percent Baetidae	5	69	33	70	0	--	3	114	12	64	1	113	11	61
Percent Hydropsychidae	0	--	9	40	0	--	0	--	0	--	0	--	0	--
Dipteran Taxa	3	33	3	22	3	33	3	17	4	0	3	0	4	16
Percent Dipteran	25	77	26	66	68	27	46	49	77	20	77	20	60	16
Non-Insect Taxa	5	25	3	17	3	33	4	25	2	25	4	16	5	22
Percent Non-Insect	41	52	5	16	31	63	39	50	3	77	22	68	22	50
Percent Chironomidae	25	77	26	66	68	27	46	49	77	20	77	20	60	16
Shannon Diversity	1.5	16	1.9	16	1.1	13	1.7	9	1.3	35	1.1	11	1.8	9
Tolerance Value	7.2	16	4.7	2	7.0	14	7.1	11	5.3	2	6.2	11	6.0	8
Percent Intolerant (0-2)	0	--	12	68	0	--	0	--	0	--	0	--	0	--
Percent Tolerant (8-10)	39	61	1	132	31	63	38	50	2	79	22	68	22	51
Percent Collectors	32	54	58	12	50	32	69	6	82	16	85	11	75	16
Percent Filterers	63	30	19	39	48	32	30	15	13	88	15	66	23	47
Percent Grazers	0	113	1	44	1	119	1	--	4	51	0	--	0	--
Percent Predators	5	50	11	16	1	94	1	80	1	87	0	--	2	47
Percent Shredders	0	--	11	78	0	--	0	--	0	--	0	--	0	--
Abundance (#/ sample)	309	67	1163	63	2660	86	1393	104	7228	65	7376	59	1872	81

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<i>Site:</i>	San Marcos Creek SMC-SP		San Marcos Creek SMC-M		San Marcos Creek SMC-RSFR		San Marcos Creek SMC-LCCC		Encinitas Creek EC-GVR		Escondido Creek EC-HRB		Escondido Creek EC-EF	
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	10	11	7	21	13	5	13	16	6	10	14	18	10	17
Percent Dominant Taxon	52	10	48	29	46	47	40	19	45	19	42	18	45	8
Ephemeropteran Taxa	2	0	2	35	2	0	2	0	0	--	2	0	2	50
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--
Trichopteran Taxa	1	0	0	--	1	43	1	43	0	--	1	0	3	57
EPT Taxa	3	0	2	35	3	17	3	17	0	--	3	0	5	33
EPT Index (%)	16	82	16	41	40	50	33	87	0	--	5	45	45	4
Sensitive EPT Index	0	--	0	--	0	--	0	--	0	--	0	--	4	118
Percent Baetidae	13	89	16	41	35	51	31	93	0	--	5	48	30	40
Percent Hydropsychidae	0	--	0	--	0	87	0	--	0	--	0	--	14	86
Dipteran Taxa	3	33	3	22	3	0	3	33	2	0	3	0	3	33
Percent Dipteran	59	12	19	56	11	61	26	32	59	21	44	18	10	23
Non-Insect Taxa	4	42	2	50	5	11	5	11	3	22	5	33	1	100
Percent Non-Insect	25	39	48	28	14	73	10	27	2	50	47	18	1	128
Percent Chironomidae	59	12	19	56	11	61	26	32	59	21	44	18	10	23
Shannon Diversity	1.3	24	1.4	18	1.6	32	1.8	8	1.1	10	1.5	23	1.4	16
Tolerance Value	6.2	9	7.6	8	5.9	6	5.6	7	5.8	2	7.1	8	5.2	5
Percent Intolerant (0-2)	0	--	0	--	0	--	0	--	0	--	0	--	4	118
Percent Tolerant (8-10)	23	50	48	28	12	89	8	31	2	58	48	18	0	103
Percent Collectors	89	8	82	10	53	42	53	59	25	57	96	3	39	26
Percent Filterers	7	81	18	45	40	67	41	71	75	19	1	100	60	17
Percent Grazers	3	64	0	--	5	115	2	10	0	--	1	49	0	87
Percent Predators	2	85	0	--	3	34	3	90	0	87	3	72	1	37
Percent Shredders	0	--	0	--	0	--	0	--	0	--	0	--	0	--
Abundance (#/ sample)	3982	47	8771	42	3595	95	9385	21	8513	24	2998	73	7908	21

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<i>Site:</i>	<b>Rattlesnake Cr. RC-HP</b>		<b>Los Penasquitas LPC-CCR</b>		<b>Los Penasquitas LPC-BMR</b>		<b>Carrol Canyon Cr. CCC-805</b>		<b>San Diego River SDR-MD</b>		<b>San Diego River SDR-MT</b>		<b>San Diego River SDR-1</b>		<b>Teco TC</b>
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean
Taxa Richness	12	9	13	16	15	4	7	16	9	18	11	16	10	56	6
Percent Dominant Taxon	34	6	32	9	29	37	51	16	53	42	59	12	63	43	79
Ephemeropteran Taxa	2	0	2	0	2	0	2	0	2	35	2	0	0	--	0
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Trichopteran Taxa	1	0	2	35	1	87	1	87	0	--	3	22	1	0	0
EPT Taxa	3	0	4	16	3	22	3	22	2	35	5	12	1	0	0
EPT Index (%)	13	69	18	46	20	54	39	45	9	86	77	8	4	89	0
Sensitive EPT Index	0	--	3	136	0	--	0	--	0	--	4	7	0	--	0
Percent Baetidae	12	75	15	46	19	54	39	46	9	86	68	13	0	--	0
Percent Hydropsychidae	0	--	3	113	0	--	0	--	0	--	7	40	0	--	0
Dipteran Taxa	4	16	3	0	3	0	3	0	3	33	2	25	2	50	3
Percent Dipteran	47	36	50	3	27	36	43	59	14	69	7	52	21	83	60
Non-Insect Taxa	4	13	4	25	7	14	0	--	3	58	3	58	5	66	1
Percent Non-Insect	35	78	6	52	24	43	0	--	29	78	5	73	12	80	1
Percent Chironomidae	47	36	50	3	27	36	43	59	14	69	7	52	21	83	60
Shannon Diversity	1.8	5	1.8	6	1.9	10	1.3	3	1.2	29	1.4	10	1.1	61	0.7
Tolerance Value	6.7	15	5.6	8	6.4	6	5.2	3	7.0	13	5.1	2	6.0	5	5.5
Percent Intolerant (0-2)	0	--	3	136	0	--	0	--	0	--	4	7	0	--	0
Percent Tolerant (8-10)	35	81	5	66	22	42	0	--	29	79	4	70	9	97	1
Percent Collectors	67	18	45	38	40	9	75	17	49	51	78	14	23	91	53
Percent Filterers	18	49	38	9	55	3	24	58	49	52	18	67	67	40	47
Percent Grazers	1	31	0	99	0	107	1	91	1	119	3	83	7	56	0
Percent Predators	14	121	17	80	4	43	0	99	1	63	1	42	3	143	0
Percent Shredders	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Abundance (#/ sample)	6680	40	4133	69	1701	59	4824	20	9666	22	6939	44	2759	84	7432

Appendix Vd. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in May 1999 within the San Diego River watershed, San Diego County, California.

	Site: late Creek	Sweetwater River		Sweetwater River		Sweetwater River	
	TCNP	SR-79	SR-79	SR-94	SR-94	SR-WS	SR-WS
	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	17	31	6	15	17	10	0
Percent Dominant Taxon	24	28	14	59	11	63	27
Ephemeropteran Taxa	--	5	11	2	0	2	35
Plecopteran Taxa	--	1	43	0	--	0	--
Trichopteran Taxa	--	5	22	0	--	0	--
EPT Taxa	--	12	8	2	0	2	0
EPT Index (%)	--	58	27	9	118	1	57
Sensitive EPT Index	--	41	35	0	--	0	--
Percent Baetidae	--	11	11	9	118	1	78
Percent Hydropsychidae	--	4	105	0	--	0	--
Dipteran Taxa	17	3	33	4	16	3	0
Percent Dipteran	78	10	34	18	24	32	47
Non-Insect Taxa	43	7	9	5	45	3	57
Percent Non-Insect	69	25	73	67	7	4	67
Percent Chironomidae	78	10	34	18	24	32	47
Shannon Diversity	57	2.5	2	1.5	16	1.1	30
Tolerance Value	8	4.3	25	7.8	8	5.9	2
Percent Intolerant (0-2)	--	42	36	0	--	0	--
Percent Tolerant (8-10)	86	24	81	65	12	3	76
Percent Collectors	83	61	3	89	2	27	37
Percent Filterers	93	5	97	3	16	72	13
Percent Grazers	--	20	63	0	4	0	--
Percent Predators	87	8	35	8	20	0	101
Percent Shredders	--	5	92	0	--	0	--
Abundance (#/ sample)	51	2154	7	4088	68	5162	47