

Benthic Macroinvertebrate Survey of the Upper Sacramento River in 2018

Metrics	Fenders Ferry Road Water Access	Sacramento River Cantara Fishing Access	Sacramento River Cantara Loop Rail Bridge	Sacramento River Castle Creek Response Site	Sierra Pacific Industries Pollard Flat Bridge	Sacramento River Delta Road Water Access	Sacramento River Dunsmuir City Park
ProtocolCode	SWAMP_2016_WS	SWAMP_2016_WS	SWAMP_2016_WS	SWAMP_2016_WS	SWAMP_2016_WS	SWAMP_2016_WS	SWAMP_2016_WS
ProjectCode	NRDA_SacRiverBA_2018	NRDA_SacRiverBA_2018	NRDA_SacRiverBA_2018	NRDA_SacRiverBA_2018	NRDA_SacRiverBA_2018	NRDA_SacRiverBA_2018	NRDA_SacRiverBA_2018
ProjectName	NRDA SacRiver BA 2018	NRDA SacRiver BA 2018	NRDA SacRiver BA 2018	NRDA SacRiver BA 2018	NRDA SacRiver BA 2018	NRDA SacRiver BA 2018	NRDA SacRiver BA 2018
SampleAgencyCode	DFW-ABL	DFW-ABL	DFW-ABL	DFW-ABL	DFW-ABL	DFW-ABL	DFW-ABL
StationCode	506SCRFFA	525SCRCA	525SCRCA	525SCRCA	525SCRCA	525SCRCA	525SCRCA
Year	2018	2018	2018	2018	2018	2018	2018
SampleDate	10/15/2018	10/16/2018	10/16/2018	10/17/2018	10/18/2018	10/18/2018	10/15/2018
LocationCode	X	X	X	X	X	X	X
CollectionTime	12:00	12:00	9:15	10:45	10:00	10:00	13:00
CollectionMethodCode	BMI_RWB	BMI_RWB	BMI_RWB	BMI_RWB	BMI_RWB	BMI_RWB	BMI_RWB
SampleTypeCode	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
CollectionDeviceDescr	D-Frame Kick Net	D-Frame Kick Net	D-Frame Kick Net	D-Frame Kick Net	D-Frame Kick Net	D-Frame Kick Net	D-Frame Kick Net
CollectionDepth	-88	-88	-88	-88	-88	-88	-88
UnitCollectionDepth	M	M	M	M	M	M	M
SieveSize	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm	0.5mm
Replicate	1	1	1	1	1	1	1
Number Acentrella	4	0	0	0	0	2	0
Number Ameletus	0	0	0	0	3	1	0
Number Amiocentrus aspilus	2	5	1	4	0	1	1
Number Ampumixis dispar	1	9	2	3	0	0	7
Number Antocha monticola	0	0	1	0	0	0	2
Number Arctopsyche	0	0	2	0	0	0	0
Number Arctopsyche grandis	0	0	1	0	0	0	1
Number Argia	3	0	0	0	0	1	0
Number Atractides	1	0	0	1	1	0	0
Number Attenella	0	1	0	0	0	0	0
Number Baetidae	1	0	0	0	0	0	0
Number Baetis	81	4	6	4	71	25	2
Number Baetis flavistriga	0	0	0	0	0	1	0
Number Baetis tricaudatus	8	17	62	54	27	27	88
Number Bezzia/ Palpomyia	0	0	0	1	0	0	0
Number Blephariceridae	1	0	0	0	0	0	0
Number Brachycentridae	0	0	1	0	0	0	2
Number Brachycentrus americanus	0	19	51	4	0	0	90
Number Brilia	0	10	2	0	0	0	0
Number Calineuria californica	0	9	3	1	0	1	0
Number Capniidae	0	26	0	0	0	0	0
Number Cardiocladus	0	0	0	0	2	0	0
Number Caudatella	0	0	0	0	0	0	1
Number Centroptilum	0	0	0	1	1	3	0
Number Chelifera/ Metachela	0	0	1	0	0	0	0
Number Cheumatopsyche	19	0	0	0	9	9	0
Number Chimarra	0	0	0	0	0	7	0
Number Chironomidae	0	0	0	0	1	1	0
Number Chironomini	0	1	0	5	0	0	0
Number Cladotanytarsus	0	0	0	34	0	0	0
Number Clinocera	0	0	0	1	0	0	0
Number Corynoneura	0	2	0	0	0	2	1
Number Cricotopus	6	0	0	4	0	9	0
Number Cricotopus trifascia group	51	0	1	0	13	42	0
Number Dicrotendipes	0	0	0	1	0	0	0
Number Drunella	0	0	0	1	0	0	0
Number Drunella doddsii	0	0	3	0	0	0	3
Number Drunella spinifera	0	0	2	0	1	0	1
Number Epeorus	5	1	11	7	10	2	26
Number Epeorus longimanus	0	0	0	0	0	0	1
Number Ephemerella tibialis	0	0	1	0	0	0	0
Number Ephemerellidae	18	2	48	44	7	2	146
Number Eubrianax edwardsii	0	1	0	0	0	0	0
Number Eukiefferiella	59	9	20	10	33	42	32
Number Fallceon	9	0	0	0	0	1	0
Number Fluminicola	0	4	6	8	0	0	3
Number Glossosoma	3	1	0	0	0	0	6
Number Goera archaon	0	0	0	0	1	0	0
Number Gumaga	0	1	1	0	13	0	2
Number Helicopsyche	1	0	0	0	1	0	0
Number Hemerodromia	0	0	0	0	0	1	0

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Number Heptageniidae	0	0	0	6	0	0	3
Number Hesperoperla pacifica	0	2	2	0	0	0	0
Number Heterotrissocladius marcidus group	0	1	0	0	0	0	0
Number Hexatoma	0	1	0	0	0	0	0
Number Hydropsyche	41	19	31	19	28	23	43
Number Hydropsychidae	1	3	8	1	0	0	4
Number Hydroptila	1	0	0	0	1	1	1
Number Hydroptilidae	1	0	0	0	0	0	1
Number Hygrobatas	4	5	0	2	1	33	1
Number Ironodes	0	2	2	0	0	0	1
Number Isoperla	0	0	0	0	1	2	0
Number Lara	0	1	0	0	0	0	0
Number Lebertia	1	1	3	0	1	1	6
Number Lepidostoma	1	59	3	98	21	0	2
Number Leptophlebiidae	0	0	0	0	1	0	0
Number Lymnaea	1	0	0	0	0	0	0
Number Malenka	0	0	0	1	0	0	0
Number Maruina lanceolata	0	0	1	0	0	0	1
Number Micrasema	0	3	15	15	1	0	21
Number Microcylloepus	2	0	0	0	0	1	0
Number Micropsectra	0	20	5	2	0	0	6
Number Microtendipes pedellus group	2	0	0	0	2	1	0
Number Monodiamesa	0	2	0	7	0	0	0
Number Muscidae	0	0	0	0	0	1	0
Number Narpus	0	0	1	0	0	0	3
Number Nemouridae	0	5	2	0	0	0	0
Number Neophylax	0	1	1	2	0	0	0
Number Octogomphus specularis	0	0	1	0	0	0	0
Number Oecetis disjuncta	0	0	0	0	4	4	0
Number Oligochaeta	11	0	2	31	12	185	11
Number Optioservus	1	17	24	34	3	3	19
Number Ordobrevia nubifera	2	1	0	2	1	2	0
Number Orthoclaidiinae	17	4	4	2	1	7	1
Number Orthocladius complex	74	3	14	30	15	26	3
Number Ostracoda	0	0	6	0	0	0	0
Number Pagastia	0	0	0	1	0	0	1
Number Paracricotopus	0	0	0	0	1	0	0
Number Paraleptophlebia	0	4	0	1	2	0	8
Number Parametricnemus	0	1	1	0	0	0	3
Number Pentaneura	5	0	0	0	0	1	0
Number Perlidae	0	0	7	0	0	0	0
Number Perlodidae	1	6	1	3	1	1	1
Number Petrophila	3	0	0	0	0	0	0
Number Phaenopsectra	0	8	0	1	1	0	0
Number Physa	2	0	0	0	0	16	0
Number Planorbidae	0	2	0	1	0	0	1
Number Plecoptera	0	1	2	0	0	0	0
Number Polycentropus	0	0	0	0	0	1	0
Number Polypedilum	0	6	0	37	0	0	1
Number Potthastia	0	0	0	3	1	0	0
Number Potthastia gaedii group	9	1	0	2	1	12	0
Number Rheocricotopus	2	17	2	0	0	0	1
Number Rheotanytarsus	11	0	0	0	34	7	0
Number Rhithrogena	0	0	0	2	0	0	9
Number Rhyacophila	0	1	0	0	0	1	1
Number Rhyacophila betteni group	0	6	1	0	0	0	0
Number Rhyacophila brunnea group	0	0	4	1	0	0	3
Number Rhyacophila coloradensis group	0	0	0	0	1	0	0
Number Rhyacophila hyalinata group	0	0	1	0	0	0	0
Number Rhyacophila sibirica group	0	0	0	0	0	0	2
Number Serratella micheneri	0	0	1	0	35	6	1
Number Sialis	0	1	0	0	0	0	0
Number Sigara	0	0	0	0	0	0	1
Number Simulium	7	9	151	54	155	0	50
Number Skwala	0	1	0	7	2	0	0
Number Sperchon	13	0	1	3	7	10	3

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Number Sphaeriidae	0	3	3	0	0	0	0
Number Sweltsa	0	4	6	2	0	0	5
Number Synorthocladius	1	0	5	0	0	1	2
Number Tanypodinae	0	1	1	2	0	0	0
Number Tanytarsini	0	1	0	4	1	2	0
Number Tanytarsus	0	13	9	10	5	1	2
Number Thienemanniella	5	1	0	1	2	4	3
Number Thienemannimyia group	0	0	3	3	2	2	1
Number Tipulidae	0	0	0	0	0	0	1
Number Torrenticola	2	7	11	2	0	5	3
Number Torrenticolidae	2	10	5	0	0	0	1
Number Tricorythodes	35	0	0	1	14	13	0
Number Turbellaria	3	2	0	0	1	9	4
Number Tvetenia	0	1	0	0	0	0	0
Number Tvetenia bavarica group	0	0	2	1	0	0	1
Number Tvetenia discoloripes group	0	0	1	0	1	0	0
Number Vorticifex	30	166	6	0	61	21	0
Number Zaitzevia	17	1	5	5	7	11	2
Number Zapada cinctipes	0	22	15	0	0	0	8