

Supplemental Table 1. Egg mass characteristics, microhabitat at egg masses, and habitat at egg mass locations in five *Rana sierrae* streams in the northern and central Sierra Nevada, surveyed in 2003. All distances and depths are reported in meters (m).

Measurement Attributes	Deadwood Creek					Ebbetts Pass					Middle Creek					Rattlesnake Creek					Summit Meadow				
	N	Mean	SD	Min	Max	N	Mean	SD	Min	Max	N	Mean	SD	Min	Max	N	Mean	SD	Min	Max	N	Mean	SD	Min	Max
<u>Egg Mass Description</u>																									
Egg mass diameter (cm)	34	5.31	1.68	2.00	8.90	104	5.58	1.88	2.60	10.80	27	6.90	2.25	2.90	12.00	21	7.70	1.87	4.50	11.10	38	14.76	6.74	5.00	32.60
Dist. to next egg mass ¹	30	0.55	0.89	0.06	4.90	104	0.14	0.25	0.00	1.90	26	0.32	0.62	0.00	2.00	22	0.32	0.49	0.00	1.39	38	0.71	1.52	0.00	6.60
<u>At Egg Mass</u>																									
Flow (m/sec)	n/a	n/a	n/a	n/a	n/a	104	0.03	0.04	0.00	0.12	27	0.00	0.02	0.00	0.09	22	0.00	0.00	0.00	0.00	38	0.00	0.01	0.00	0.03
Dist. from surface	31	0.19	0.11	0.00	0.47	104	0.01	0.03	-0.03	0.16	26	0.06	0.07	0.00	0.24	22	0.06	0.06	0.00	0.18	38	0.13	0.12	0.00	0.39
Depth from bottom	31	0.11	0.08	0.00	0.38	104	0.02	0.02	0.00	0.12	26	0.02	0.04	0.00	0.15	22	0.02	0.03	0.00	0.09	38	0.06	0.10	0.00	0.35
<u>Egg Mass Location</u>																									
Site center depth	5	0.27	0.12	0.16	0.40	3	0.07	0.05	0.01	0.10	6	0.15	0.09	0.02	0.24	2	0.21	0.09	0.15	0.27	6	0.41	0.09	0.29	0.52
Flow (m/sec)	5	0.00	0.00	0.00	0.00	3	0.06	0.11	0.00	0.18	6	0.11	0.10	0.00	0.24	2	0.00	0.00	0.00	0.00	6	0.02	0.02	0.00	0.03
Bank angle (°)	5	114.6	23.9	90.0	140.0	3	31.7	37.5	10.0	75.0	6	118.5	43.8	60.0	164.0	2	162.0	4.2	159.0	165.0	6	180.0	0.0	180.0	180.0
Canopy cover (%)	5	12.9	9.6	1.8	22.9	3	7.9	4.2	3.1	10.9	6	14.4	11.4	1.0	31.5	2	25.6	8.6	19.5	31.7	6	0.7	1.5	0.0	3.6
Water temp.(C)	5	23.7	3.1	21.5	29.0	3	21.3	2.9	18.0	23.0	6	17.1	3.2	13.5	22.0	2	15.5	3.5	13.0	18.0	6	11.8	2.6	9.0	15.0
Gradient	1	1.0		1.0	1.0	2	3.0	0.0	3.0	3.0	6	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0
<u>Stream Characteristics</u>																									
Bank full width	n/a	n/a	n/a	n/a	n/a	2	2.0	1.0	1.3	2.7	6	3.2	0.6	2.6	4.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Wetted width	1	3.8		3.8	3.8	2	1.2	0.8	0.6	1.7	6	2.7	0.7	1.6	3.8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Thalweg depth	1	1.55		1.55	1.55	2	0.06	0.06	0.01	0.10	6	0.27	0.12	0.11	0.46	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Gradient	1	1.0		1.0	1.0	2	2.5	0.7	2.0	3.0	6	3.3	0.8	3.0	5.0	2	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0

¹Median distances to next egg masses were lower with 0.24 for Deadwood Creek, 0.06 for Ebbetts Pass, 0.02 for Middle Creek, 0.05 for Rattlesnake Creek, and 0.27 for Summit Meadow
n/a means data is not available