Fine Sediments and Steelhead

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Function Updated by mbakken on Fri, 04/04/2025 - 05:08.

Species Information

Common Name: Steelhead
Genus: Oncorhynchus mykiss irideus

Stressor Details

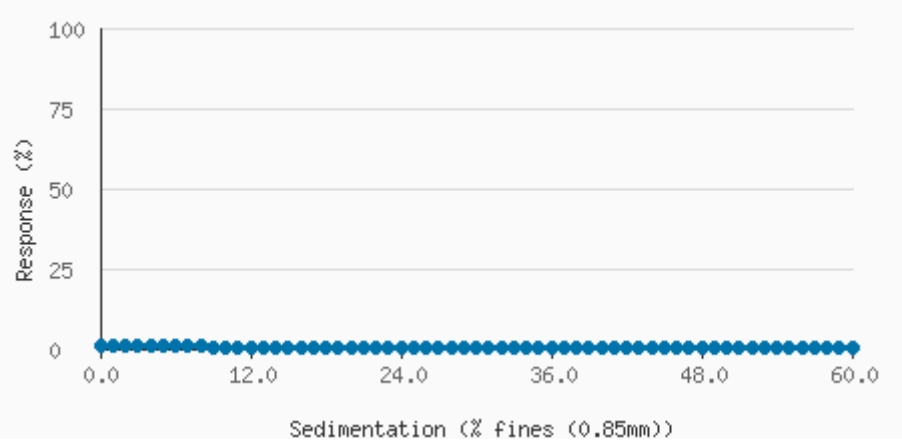
Stressor Name: Sedimentation
Units: % fines (0.85mm)
Metric: Fine sediments
Scale: linear
Function Type: continuous
Vital Rate/Process: Survivorship

Life Stage & Context

Life Stages: Juvenile
Geography: Pacific Northwest Freshwater Systems, USA
Activity: Incubation
Season: All seasons

Descriptions

Stressor Response Data



?PERCENT_FINES_0.85mm	Mean System Capacity (%)	SD	low.limit	up.limit
0	0.804469091	0.032055061		
1	0.786403113	0.033392209		
2	0.767137111	0.034693228		
3	0.746679223	0.035948719		
4	0.725054666	0.03714956		
5	0.702307293	0.038286951		
6	0.678500679	0.039352391		
7	0.653718618	0.040337591		
8	0.628064904	0.04123434		
9	0.601662313	0.042034361		

10	0.574650755	0.042729195		
11	0.547184627	0.04331017		
12	0.51942943	0.043768491		
13	0.491557824	0.044095468		
14	0.463745295	0.044282895		
15	0.436165681	0.044323528		
16	0.408986789	0.044211631		
17	0.382366353	0.043943507		
18	0.356448516	0.043517957		
19	0.331361017	0.042936599		
20	0.30721315	0.042204018		
21	0.284094559	0.041327726		
22	0.26207482	0.040317941		
23	0.241203752	0.03918722		
24	0.22151235	0.037949979		
25	0.203014203	0.036621947		
26	0.185707263	0.03521961		
27	0.16957584	0.033759662		
28	0.154592695	0.032258523		
29	0.140721132	0.030731923		
30	0.127917002	0.029194565		
31	0.116130579	0.027659889		
32	0.10530824	0.026139903		
33	0.095393956	0.024645099		
34	0.086330554	0.023184434		
35	0.078060792	0.021765357		
36	0.070528216	0.02039388		
37	0.063677852	0.019074676		
38	0.057456726	0.017811201		
39	0.051814249	0.016605816		
40	0.046702476	0.015459923		
41	0.042076272	0.014374096		
42	0.037893388	0.013348202		
43	0.034114473	0.01238152		
44	0.030703039	0.011472851		
45	0.027625383	0.010620608		
46	0.024850474	0.009822905		
47	0.022349834	0.009077635		
48	0.02009739	0.008382528		
49	0.018069333	0.00773521		
50	0.016243959	0.007133249		
51	0.014601527	0.006574192		

52	0.013124103	0.006055599		
53	0.011795423	0.005575065		
54	0.010600755	0.005130243		
55	0.009526769	0.004718857		
56	0.008561416	0.004338715		
57	0.007693814	0.003987717		
58	0.006914144	0.00366386		
59	0.006213552	0.003365243		
60	0.005584058	0.003090065		

Citations

Jensen, D.W., Steel, E.A., Fullerton, A.H. and Pess, G.R., 2009. Impact of fine sediment on egg-to-fry survival of Pacific salmon: a meta-analysis of published studies. Reviews in Fisheries Science, 17(3), pp.348-359.