Jensen 2009: Fine Sediments and Coho Salmon

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Species Information

Common Name: Coho Salmon
Genus: Oncorhynchus kisutch

Stressor Details

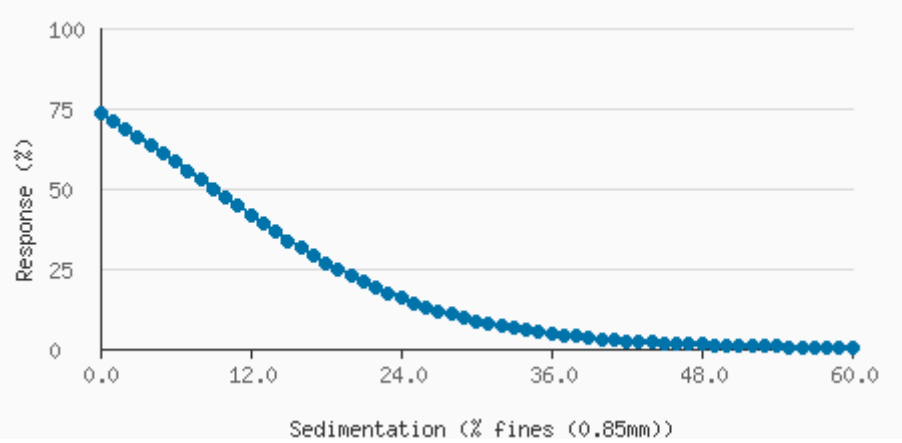
Stressor Name: Sedimentation
Units: % fines (0.85mm)
Metric: Fine sediments
Scale: linear
Function Type: continuous
Vital Rate/Process: Survivorship

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	73.16	3.4	0	100
1	70.92	3.41	0	100
2	68.58	3.41	0	100
3	66.13	3.38	0	100
4	63.59	3.33	0	100
5	60.96	3.27	0	100
6	58.27	3.19	0	100
7	55.53	3.1	0	100
8	52.75	3	0	100
9	49.96	2.89	0	100

10	47.16	2.79	0	100
11	44.38	2.69	0	100
12	41.63	2.59	0	100
13	38.93	2.51	0	100
14	36.3	2.43	0	100
15	33.75	2.36	0	100
16	31.3	2.3	0	100
17	28.94	2.25	0	100
18	26.69	2.2	0	100
19	24.56	2.16	0	100
20	22.55	2.11	0	100
21	20.66	2.07	0	100
22	18.89	2.02	0	100
23	17.24	1.97	0	100
24	15.7	1.92	0	100
25	14.28	1.86	0	100
26	12.98	1.8	0	100
27	11.77	1.74	0	100
28	10.67	1.67	0	100
29	9.65	1.6	0	100
30	8.73	1.53	0	100
31	7.89	1.45	0	100
32	7.12	1.38	0	100
33	6.42	1.31	0	100
34	5.79	1.24	0	100
35	5.22	1.17	0	100
36	4.7	1.1	0	100
37	4.23	1.03	0	100
38	3.81	0.97	0	100
39	3.42	0.91	0	100
40	3.08	0.85	0	100
41	2.77	0.79	0	100
42	2.49	0.74	0	100
43	2.24	0.68	0	100
44	2.01	0.64	0	100
45	1.8	0.59	0	100
46	1.62	0.55	0	100
47	1.46	0.51	0	100
48	1.31	0.47	0	100
49	1.17	0.43	0	100
50	1.05	0.4	0	100
51	0.95	0.37	0	100

52	0.85	0.34	0	100
53	0.76	0.32	0	100
54	0.69	0.29	0	100
55	0.62	0.27	0	100
56	0.55	0.25	0	100
57	0.5	0.23	0	100
58	0.45	0.21	0	100
59	0.4	0.19	0	100
60	0.36	0.18	0	100

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.