Tagart 1984: Fines and Coho Egg to Fry Surv.

Downloaded on: 2026-11-09, From: https://mjbayly.com/stressor-response/tagart-1984-fines-and-coho-egg-fry-surv
Function Updated by mbayly on Sat, 01/11/2025 - 22:56.

Species Information

Common Name: Coho Salmon
Genus: Oncorhynchus kisutch

Stressor Details

Stressor Name: Fines
Units: Rank Score
Metric: Substrate Fine Coverage (<0.85mm)
Scale: linear
Function Type: continuous
Vital Rate/Process: Survivorship

Life Stage & Context

Life Stages: Egg
Geography: Clearwater River, western Washington
Activity: Incubation
Season: Winter

Descriptions

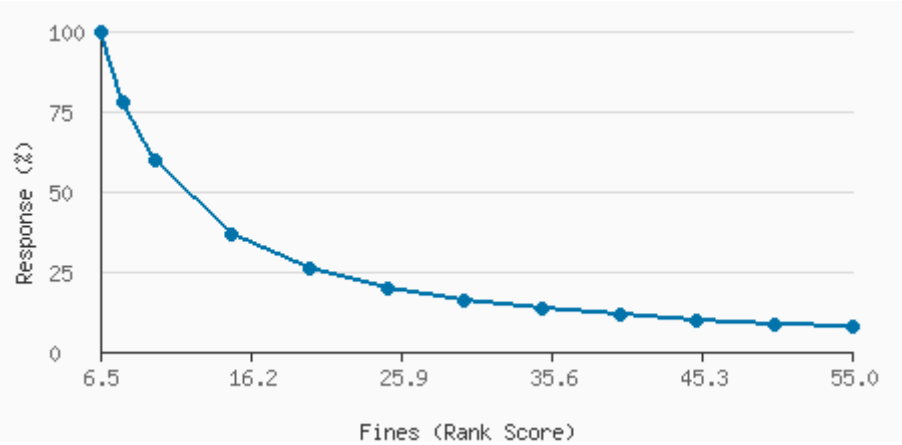
Overview

> Excerpt from Lestelle et al., 2024:
>
> "We employed the empirical relationship reported by Tagart (1984) for the effects of percent fine sediment (

Stressor Magnitude Data

> Field measurements

Stressor Response Data



Raw Stressor Values	Scaled Response Values 0 to 100	SD	low.limit	up.limit
6.5	99.5	0	0	100
8	77.6	0	0	100

10	59.4	0	0	100
15	36.6	0	0	100
20	25.9	0	0	100
25	19.9	0	0	100
30	16	0	0	100
35	13.3	0	0	100
40	11.3	0	0	100
45	9.8	0	0	100
50	8.7	0	0	100
55	7.7	0	0	100

Citations

Lestelle, L. C., Mobrand, L. E., & McConnaha, W. E. (2004). Information structure of Ecosystem Diagnosis and Treatment (EDT) and habitat rating rules for Chinook salmon, Coho salmon, and Steelhead trout. Mobrand Biometrics, Inc. Copyright © 2004 Mobrand Biometrics, Inc. https://www.webpages.uidaho.edu/fish510/PDF/coho%20ck%20rules.pdf

Tagart, J. V. 1984. Coho salmon survival from egg deposition to fry emergence. in J. M. Walton and D. B. Jouston, editors. Proceedings of the Olympic wild fish conference. Peninsula College Fisheries Technology Program Port Angeles, WA.

References

Lestelle et al 2004 - https://www.webpages.uidaho.edu/fish510/PDF/coho%20ck%20rules.pdf

Tagart 1984 - https://coastsalmonpartnership.egnyte.com/dl/odkEKJGTVI