# Tagart 1984: Fines and Coho Egg to Fry Surv.

Downloaded on: 2026-11-20, 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

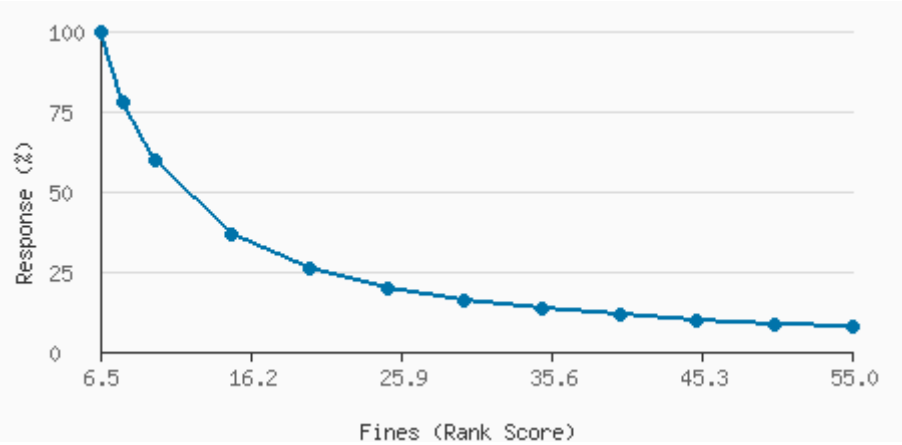
### Overview

> 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