

# Embeddedness and Steelhead Fry Density (Winter)

Downloaded on: 2026-04-13, From: <https://mjbayly.com/stressor-response/embeddedness-and-steelhead-fry-density-winter>  
Function Updated by stobias on Tue, 11/19/2024 - 22:10.

## Species Information

**Common Name:** Steelhead Trout  
**Genus:** *Oncorhynchus mykiss*

## Stressor Details

**Stressor Name:** Sedimentation  
**Units:** % of cobbles and boulders embedded by added fine sediment  
**Metric:** Fine Sediment  
**Scale:** linear  
**Function Type:** continuous  
**Vital Rate/Process:** Density

## Life Stage & Context

**Life Stages:** Fry  
**Season:** Winter

## Descriptions

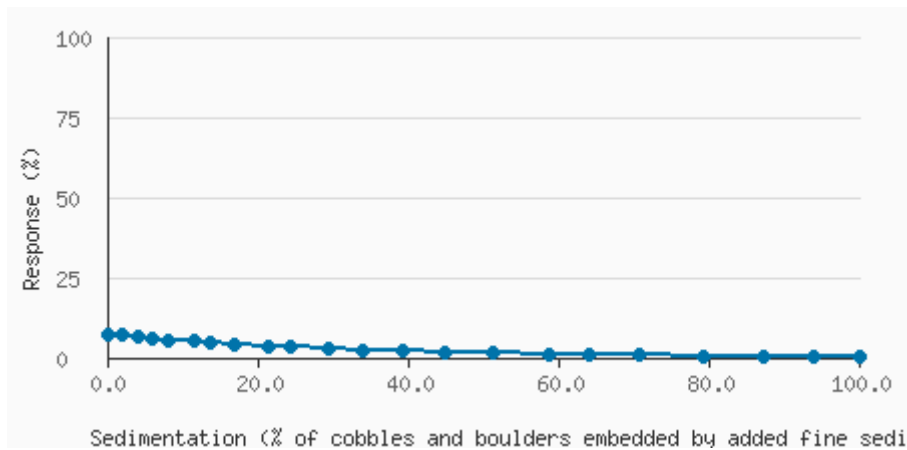
### Overview

Densities of age 0 steelhead trout remaining in laboratory stream channels after 5 d during winter and summer tests to evaluate the effects of sedimentation. The channels had alternative pool-riffle configurations; fine sediments (

### Function Derivation

laboratory experiment

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
0.00	7.38	0.00	7.38	7.38
1.87	6.99	0.00	6.99	6.99
4.12	6.52	0.00	6.52	6.52
5.99	6.03	0.00	6.03	6.03
8.24	5.58	0.00	5.58	5.58

11.61	5.02	0.00	5.02	5.02
13.86	4.66	0.00	4.66	4.66
16.85	4.19	0.00	4.19	4.19
21.35	3.65	0.00	3.65	3.65
24.34	3.24	0.00	3.24	3.24
29.59	2.72	0.00	2.72	2.72
34.08	2.32	0.00	2.32	2.32
39.33	1.94	0.00	1.94	1.94
44.94	1.56	0.00	1.56	1.56
51.31	1.29	0.00	1.29	1.29
58.80	0.99	0.00	0.99	0.99
64.04	0.84	0.00	0.84	0.84
70.79	0.66	0.00	0.66	0.66
79.40	0.48	0.00	0.48	0.48
87.27	0.39	0.00	0.39	0.39
94.01	0.25	0.00	0.25	0.25
100.00	0.21	0.00	0.21	0.21

## Citations

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Bjornn, T. C., & Reiser, D. W. (1991). Habitat requirements of salmonids in streams. American Fisheries Society Special Publication, 19(837), 104.

## References

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[https://www.for.gov.bc.ca/hfd/LIBRARY/FFIP/Bjornn\\_TC1991.pdf](https://www.for.gov.bc.ca/hfd/LIBRARY/FFIP/Bjornn_TC1991.pdf) -  
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