

# Turbidity and Steelhead Habitat Density Scalar (0.5mm)

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Function Updated by stobias on Mon, 12/16/2024 - 00:31.

## Species Information

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

## Stressor Details

**Stressor Name:** Turbidity  
**Units:** NTU  
**Metric:** Turbidity (by riffle depth) at 0.5m  
**Scale:** linear  
**Function Type:** continuous  
**Vital Rate/Process:** Density

## Life Stage & Context

**Life Stages:** Parr

## Descriptions

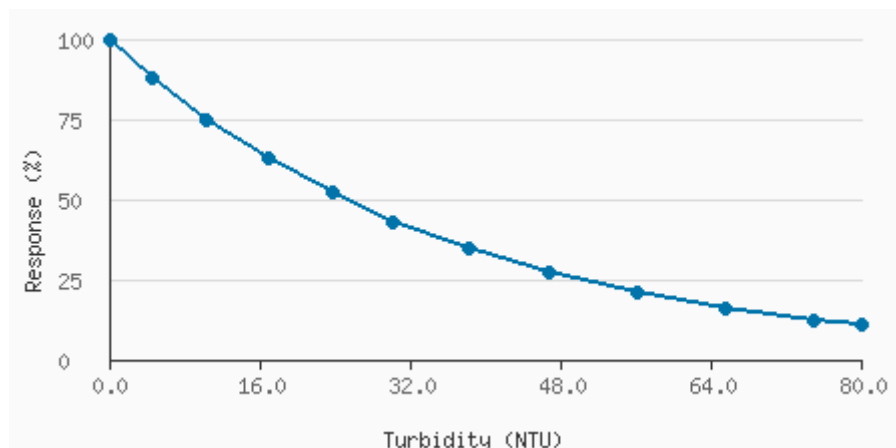
### Overview

Figure 2. Habitat preference relationships applied within the UCM for scaling standard parr densities to those expected under the specific habitat features in a given stream.

### Function Derivation

expert opinion

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
0	100	0	0	100
4.52	88	0	0	100
10.32	75	0	0	100
17.01	63	0	0	100
23.71	52	0	0	100
30.23	43	0	0	100

38.19	35	0	0	100
46.88	27	0	0	100
56.29	21	0	0	100
65.7	16	0	0	100
74.93	12	0	0	100
80	11	0	0	100

## Citations

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Cramer, S. P., & Ackerman, N. K. (2009). Prediction of stream carrying capacity for steelhead (*Oncorhynchus mykiss*): the unit characteristic method. In American Fisheries Society, Series: Symposium (Vol. 71, pp. 255-288).

## References

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Cramer & Ackerman 2009 - [https://www.researchgate.net/profile/Steven-Cramer-4/publication/228957643\\_Prediction\\_of\\_stream\\_carrying\\_capacity\\_for\\_steelhead\\_the\\_unit\\_characteristic\\_method/links/00b495193f52d051of-stream-carrying-capacity-for-steelhead-the-unit-characteristic-method.pdf](https://www.researchgate.net/profile/Steven-Cramer-4/publication/228957643_Prediction_of_stream_carrying_capacity_for_steelhead_the_unit_characteristic_method/links/00b495193f52d051of-stream-carrying-capacity-for-steelhead-the-unit-characteristic-method.pdf)