

Turbidity and Steelhead Habitat Density Scalar (0.3mm)

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Species Information

Common Name: Steelhead Trout
Genus: *Oncorhynchus mykiss*

Stressor Details

Stressor Name: Turbidity
Units: NTU
Metric: Turbidity (by riffle depth) at 0.3m
Scale: linear
Function Type: continuous
Vital Rate/Process: Density

Life Stage & Context

Life Stages: Parr

Descriptions

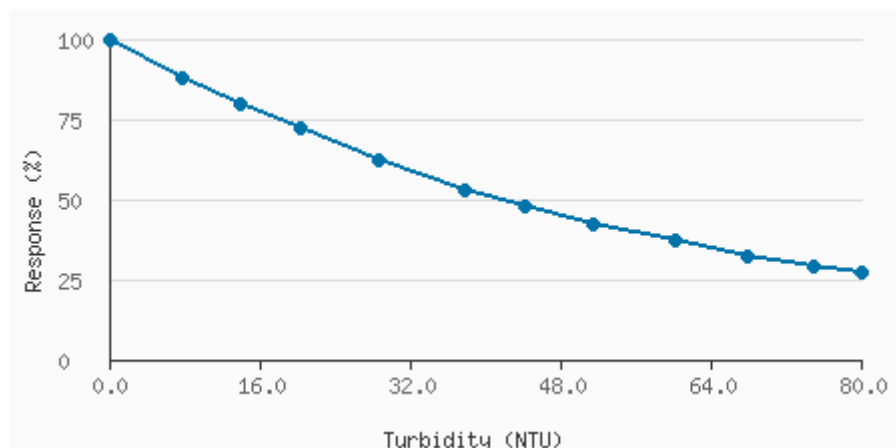
Overview

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
7.78	88	0	0	100
13.94	80	0	0	100
20.27	72	0	0	100
28.6	62	0	0	100
37.83	53	0	0	100

44.34	48	0	0	100
51.58	42	0	0	100
60.27	37	0	0	100
68.05	32	0	0	100
74.93	29	0	0	100
80	27	0	0	100

Citations

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

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