Turbidity and Steelhead Habitat Density Scalar (0.1mm)

Function Updated by stobias on Mon, 12/16/2024 - 00:32.

Species Information

Common Name: Steelhead Trout
Genus: Oncorhynchus mykiss

Stressor Details

Stressor Name: Turbidity
Units: NTU
Metric: Turbidity (by riffle depth) at 0.1m
Scale: linear
Function Type: continuous
Vital Rate/Process: Density

Life Stage & Context
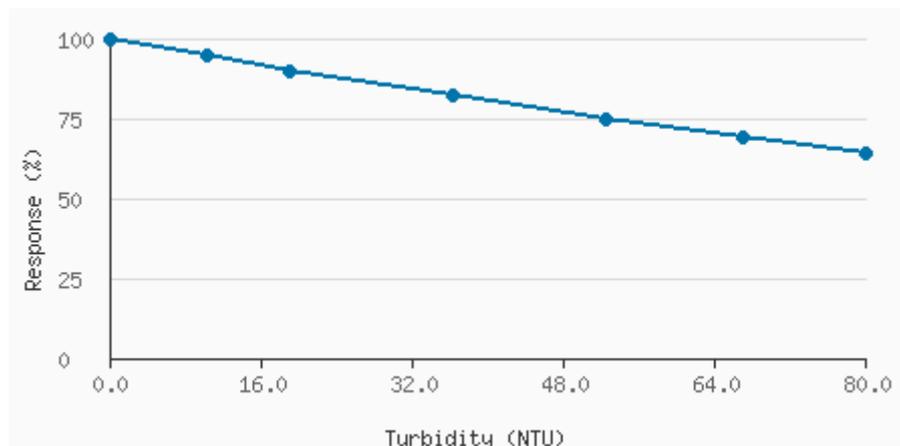
Life Stages: Parr

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	100	100
10.32	95	0	95	95
19	90	0	90	90
36.38	82	0	82	82
52.49	75	0	75	75
67.15	69	0	69	69

80	64		0	64	64

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/00b495193f52d05l of-stream-carrying-capacity-for-steelhead-the-unit-characteristic-method.pdf