Pool Length and Steelhead Habitat Density Scalar

Species Information

Common Name: Steelhead Trout
Genus: Oncorhynchus mykiss

Stressor Details

Stressor Name: Pool Length
Units: m
Metric: Pool Length
Scale: linear
Function Type: continuous
Vital Rate/Process: Density

Life Stage & Context
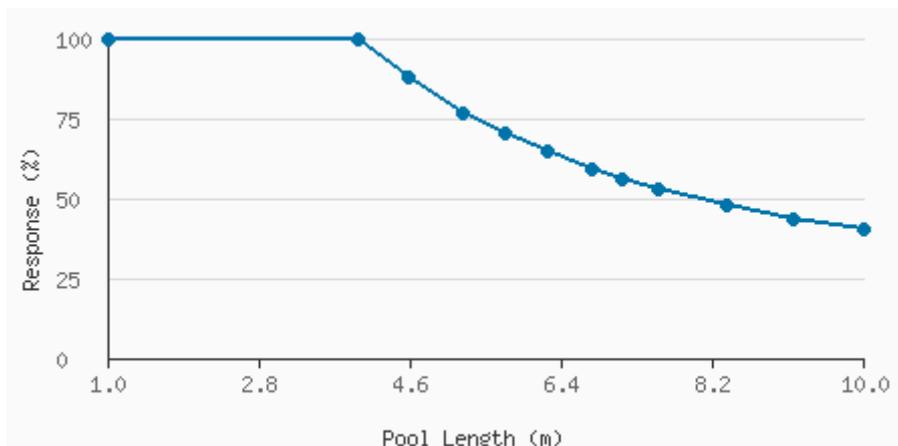
Life Stages: Parr

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
1.02	100.00	0.00	100.00	100.00
4.00	100.00	0.00	100.00	100.00
4.60	87.72	0.00	87.72	87.72
5.25	76.72	0.00	76.72	76.72
5.74	70.37	0.00	70.37	70.37
6.26	64.87	0.00	64.87	64.87

6.79	59.37		0.00	59.37	59.37
7.13	55.98		0.00	55.98	55.98
7.58	53.02		0.00	53.02	53.02
8.38	47.94		0.00	47.94	47.94
9.17	43.70		0.00	43.70	43.70
10.00	40.32		0.00	40.32	40.32

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/00b495193f52d05b of-stream-carrying-capacity-for-steelhead-the-unit-characteristic-method.pdf