

# Alkalinity and Steelhead Habitat Density Scalar

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## Species Information

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

## Stressor Details

**Stressor Name:** Alkalinity  
**Units:** mgCaCO<sub>3</sub>/l  
**Metric:** Alkalinity of water  
**Scale:** linear  
**Function Type:** continuous  
**Vital Rate/Process:** Density

## Life Stage & Context

**Life Stages:** Parr

## Descriptions

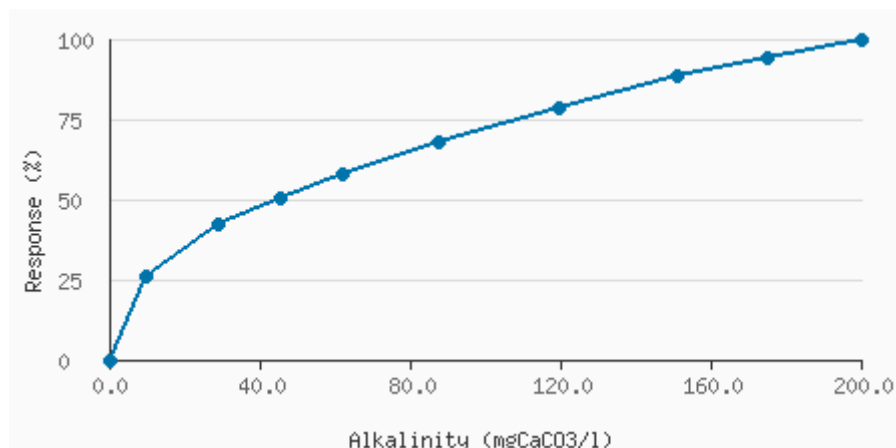
### Overview

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	0	0	0	100
9.93	25.72614108	0	0	100
29.31	41.90871369	0	0	100
45.39	50.62240664	0	0	100
61.94	58.09128631	0	0	100
87.94	68.04979253	0	0	100

119.62	78.42323651	0	0	100
151.3	88.38174274	0	0	100
175.41	94.19087137	0	0	100
200	100	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)