

# Boulder Cover and Steelhead Habitat Density Scalar

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Function Updated by mjbayly on Tue, 12/31/2024 - 21:21.

## Species Information

**Common Name:** Steelhead Trout

**Genus:** *Oncorhynchus mykiss*

## Stressor Details

**Stressor Name:** Boulder cover

**Units:** %

**Metric:** Proportion of boulder substrate cover

**Scale:** linear

**Function Type:** continuous

**Vital Rate/Process:** Density

## Life Stage & Context

**Life Stages:** Parr

## Descriptions

### Overview

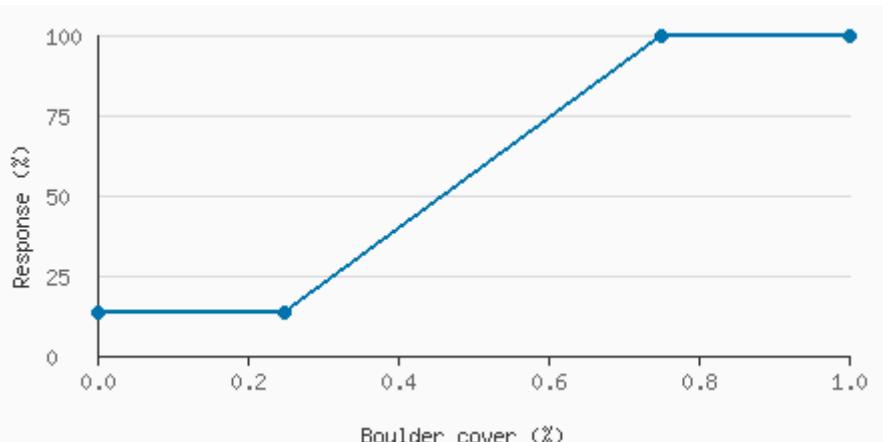
Figure 2. Habitat preference relationships applied within the UCM for scaling standard parr densities to those expected under the specific habitat features in a given stream.

Scaled from the original curve so that the highest upper limit value equals to 100% (original value was 70.3%).

### Function Derivation

expert opinion

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
0	13.51351351	0	0	0
0.25	13.51351351	0	0	0
0.75	100	0	0	0
1	100	0	0	0

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