

Rempel et al 2012: Velocity and Mountain Sucker HSI

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Species Information

Common Name: Mountain Sucker
Genus: *Catostomus platyrhynchus*

Stressor Details

Stressor Name: Velocity
Units: m/s
Metric: Water velocity
Scale: linear
Function Type: continuous

Life Stage & Context

Life Stages: Juvenile
Geography: Fraser River

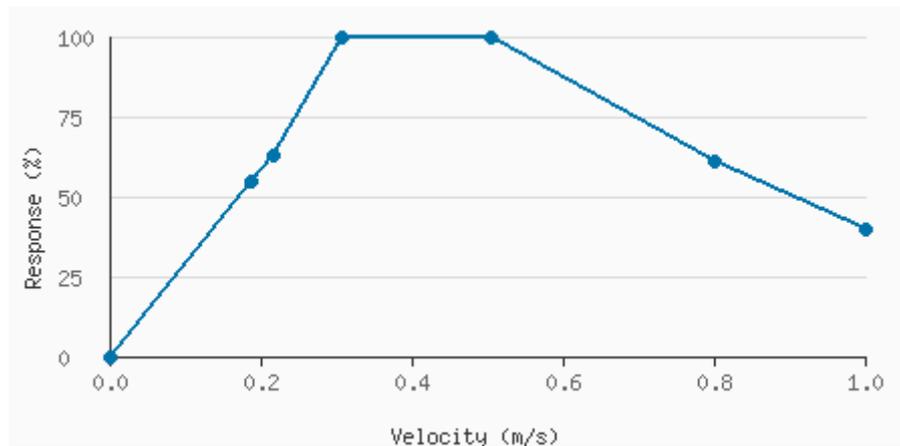
Descriptions

Overview

For both depth and velocity, the composite channel curve of Mountain Sucker 1+/2+ matches habitat suitability. Mountain Sucker 1+/2+ HSC curves for depth and velocity. The curve shows all channel types (main, side and summer channels) of the Fraser River gravel analyzed together.

Velocity units converted from cm/s to m/s.

Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
-0.01	0.00	0.00	0.00	0.00
0.18	54.58	0.00	54.58	54.58
0.21	63.03	0.00	63.03	63.03
0.30	100.00	0.00	100.00	100.00
0.50	100.00	0.00	100.00	100.00
0.80	60.68	0.00	60.68	60.68
1.00	39.79	0.00	39.79	39.79

Citations

Rempel, L. L., Healey, K., & Lewis, F. J. A. (2012). Lower Fraser River juvenile fish habitat suitability criteria. Ecosystem Management Branch, Fisheries and Oceans Canada.

References

Rempel et al. 2012 - <https://www.ecofishresearch.com/wp-content/uploads/2016/09/346413.pdf>