

# Rempel et al 2012: Velocity and Mountain Sucker HSI

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Function Updated by stobias on Fri, 12/27/2024 - 18:06.

## 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

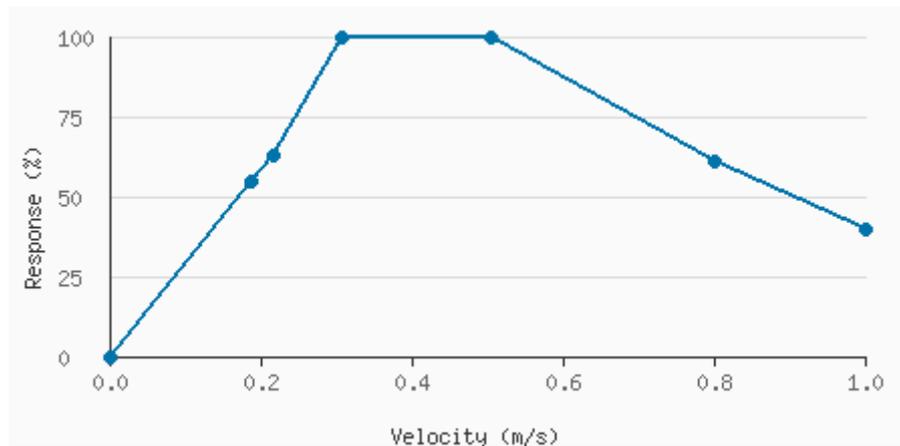
## Descriptions

### 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

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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

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