

# Rempel et al 2012: Depth and Mountain Sucker HSI

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Function Updated by stobias on Fri, 12/27/2024 - 18:07.

## Species Information

**Common Name:** Mountain Sucker  
**Genus:** *Catostomus platyrhynchus*

## Stressor Details

**Stressor Name:** Depth  
**Units:** m  
**Metric:** Water depth  
**Scale:** linear  
**Function Type:** continuous

## Life Stage & Context

**Life Stages:** Juvenile  
**Geography:** Fraser River

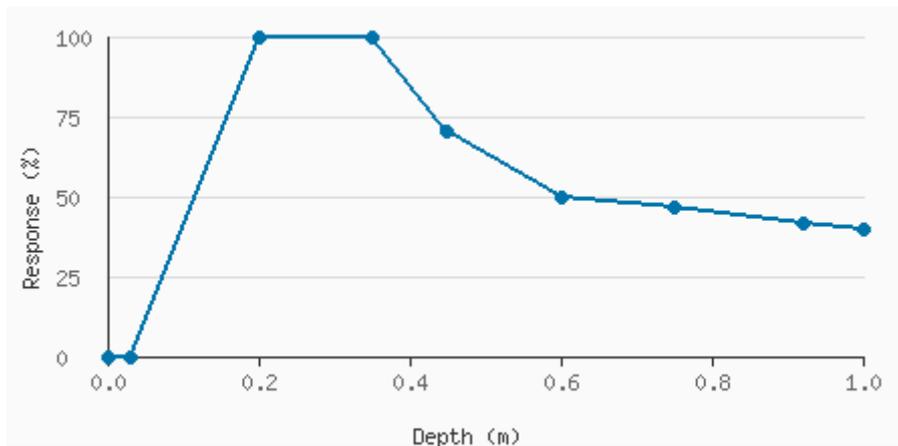
## Descriptions

### 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.

Depth units converted from cm to m.

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
0.00	0.00	0.00	0.00	0.00
0.03	0.00	0.00	0.00	0.00
0.20	100.00	0.00	100.00	100.00
0.35	100.00	0.00	100.00	100.00
0.45	70.44	0.00	70.44	70.44
0.60	50.00	0.00	50.00	50.00
0.75	46.31	0.00	46.31	46.31

0.92	41.87	0.00	41.87	41.87
1.00	39.90	0.00	39.90	39.90

## 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>