

# Rempel et al. 2012: Velocity and Chinook HSI (Fraser River)

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## Species Information

**Common Name:** Chinook Salmon  
**Genus:** *Oncorhynchus tshawytscha*

## Stressor Details

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

## Life Stage & Context

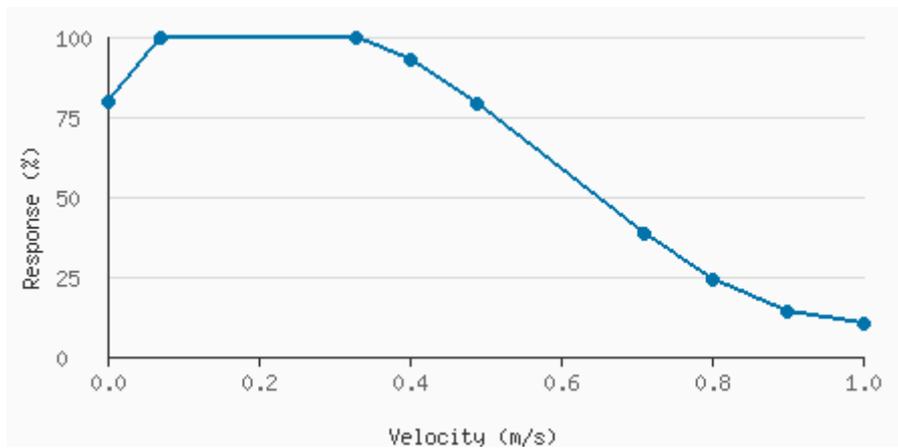
**Life Stages:** Fry  
**Geography:** Fraser River

## Descriptions

### Overview

Suitable velocity for Fraser fish is also similar to the WUP curve and identifies low-velocity habitat up to 35 cm/s as highly suitable. Maximum suitability extends to lower velocities for Fraser fish (5 cm/s) compared to the WUP curve.

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
-0.00	79.89	0.00	79.89	79.89
0.07	100.00	0.00	100.00	100.00
0.33	100.00	0.00	100.00	100.00
0.40	93.10	0.00	93.10	93.10
0.49	79.31	0.00	79.31	79.31
0.71	38.22	0.00	38.22	38.22
0.80	23.85	0.00	23.85	23.85
0.90	14.08	0.00	14.08	14.08
1.00	10.06	0.00	10.06	10.06

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