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

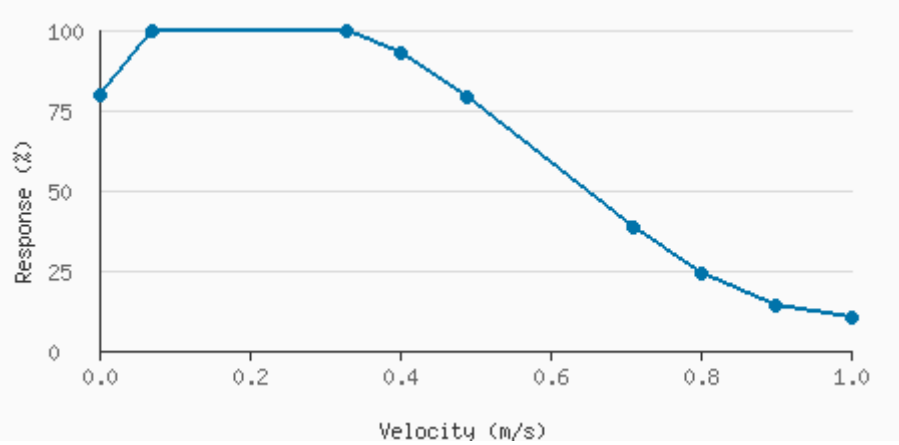
Life Stages: Fry
Geography: Fraser River

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

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