

Rempel et al. 2012: Velocity and Chinook HSI (Delphi)

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Function Updated by stobias on Mon, 12/23/2024 - 16:59.

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

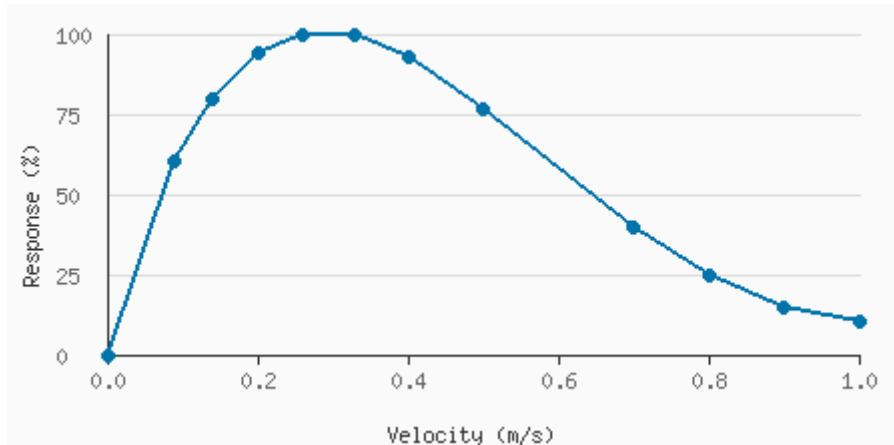
Life Stages: Fry

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	0.00	0.00	0.00	0.00
0.09	60.34	0.00	60.34	60.34
0.14	79.89	0.00	79.89	79.89
0.20	93.97	0.00	93.97	93.97
0.26	100.00	0.00	100.00	100.00
0.33	100.00	0.00	100.00	100.00
0.40	92.82	0.00	92.82	92.82
0.50	76.72	0.00	76.72	76.72
0.70	39.94	0.00	39.94	39.94
0.80	24.71	0.00	24.71	24.71

0.90	14.66	0.00	14.66	14.66
1.00	10.06	0.00	10.06	10.06
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>