Rempel et al 2012: Depth and Rainbow Trout Parr HSI (Delphi)

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Function Updated by stobias on Fri, 12/27/2024 - 17:34.

Species Information

Common Name: Rainbow Trout
Genus: Oncorhynchus mykiss

Stressor Details

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

Life Stage & Context

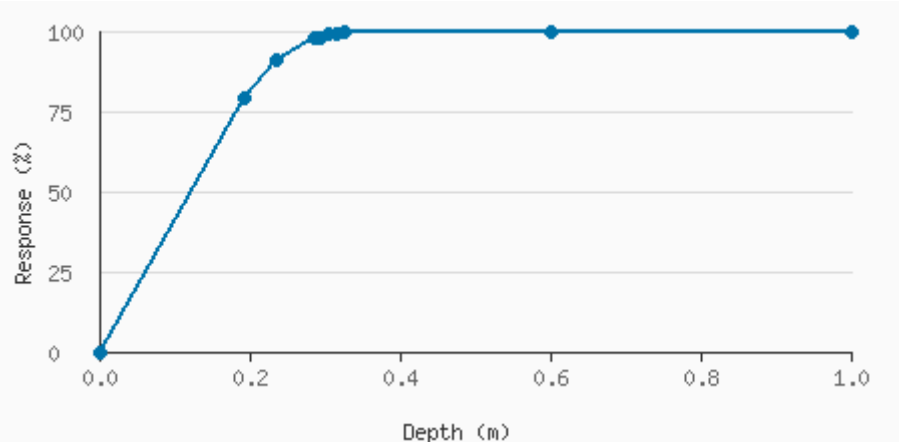
Life Stages: Parr

Descriptions

Overview

> For Fraser River Rainbow Trout yearlings, depth suitability is similar though slightly shallower compared to the WUP Delphi curve. Suitability also tapers off beyond 90 cm depth for Fraser fish.
>
> Depth units converted from cm to m.

Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
0.02	0.00	0.00	0.00	0.00
0.21	78.77	0.00	78.77	78.77
0.25	90.95	0.00	90.95	90.95
0.30	98.00	0.00	98.00	98.00
0.31	98.00	0.00	98.00	98.00
0.32	99.28	0.00	99.28	99.28
0.33	98.96	0.00	98.96	98.96
0.34	100.00	0.00	100.00	100.00

0.61	99.92	0.00	99.92	99.92
1.00	100.00	0.00	100.00	100.00

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