

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

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## Species Information

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

## Stressor Details

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

## Life Stage & Context

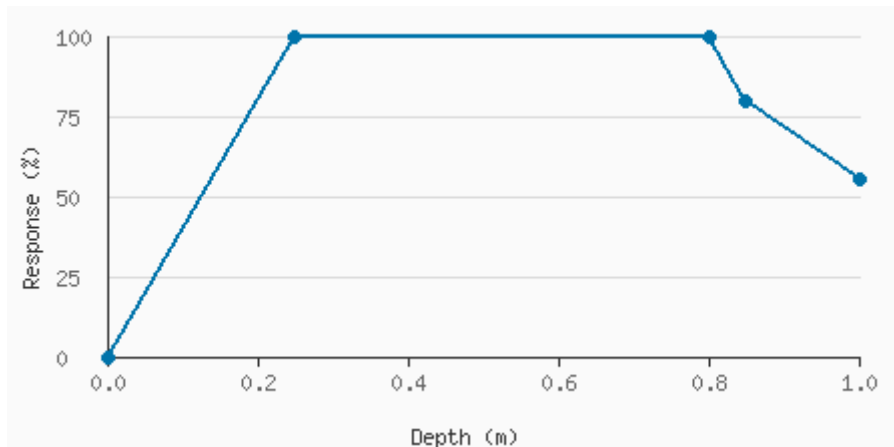
**Life Stages:** Fry  
**Geography:** Fraser River

## Descriptions

### Overview

A wide range of depths were suitable for 0+ stream/ocean-type Chinook Salmon captured in spring (Figure 21). The wide depth suitability may be reflective of both shallow water use by stream-type fry and a broader distribution of migrating ocean-type fish. Depth suitability for Fraser gravel reach fish is similar to the WUP curve for Chinook fry, except that suitability declines past 80 cm for Fraser fish (Figure 21).

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
0	0	0	0	0
0.25	100	0	100	100
0.8	100	0	100	100
0.85	80	0	80	80
1	55.08	0	55.08	55.08

## 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

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