

# Mean Annual Discharge and Chinook Salmon

Downloaded on: 2026-04-30, From: <https://mjbayly.com/stressor-response/mean-annual-discharge-and-chinook-salmon-5>  
Function Updated by jrosenfeld on Tue, 02/24/2026 - 21:13.

## Species Information

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

## Stressor Details

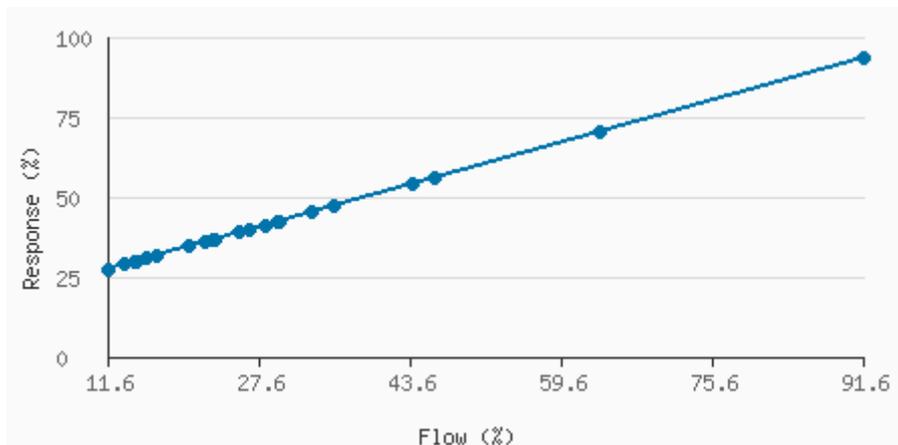
**Stressor Name:** Flow  
**Units:** %  
**Metric:** Mean Annual Discharge (MAD)  
**Scale:** linear  
**Function Type:** continuous  
**Vital Rate/Process:** Residual recruits

## Life Stage & Context

**Life Stages:** Fry  
**Geography:** Nicola River, BC, Canada  
**Activity:** Rearing  
**Season:** All seasons

## Descriptions

## Stressor Response Data



?PERCENT_MAD	Mean System Capacity (%)	SD	low.limit	up.limit
11.57248322	27.2551611	0	0	100
13.44899329	28.8126644	0	0	100
13.45167785	28.8148926	0	0	100
14.39194631	29.5953154	0	0	100
14.7352349	29.880245	0	0	100
15.8295302	30.7885101	0	0	100
16.84228188	31.629094	0	0	100
20.24798658	34.4558289	0	0	100
21.88120805	35.8114027	0	0	100
22.73187919	36.5174597	0	0	100

23.06845638	36.7968188	0	0	100
25.5295302	38.8395101	0	0	100
26.55268456	39.6887282	0	0	100
28.42718121	41.2445604	0	0	100
29.6204698	42.2349899	0	0	100
29.7761745	42.3642248	0	0	100
33.33422819	45.3174094	0	0	100
35.65234899	47.2414497	0	0	100
43.80939597	54.0117987	0	0	100
46.19798658	55.9943289	0	0	100
63.79228188	70.597594	0	0	100
91.59966443	93.6777215	0	0	100

## Citations

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Warkentin, L., Parken, C.K., Bailey, R., and Moore, J.W. 2022. Low summer river flows associated with low productivity of Chinook salmon in a watershed with shifting hydrology. *Ecol. Solut. Evid.* 3:e12124.