Mean Annual Discharge and Chinook Salmon

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Function Updated by leah.egeryhaley on Mon, 06/22/2026 - 22:04.

Species Information

Common Name: Chinook Salmon
Genus: Oncorhynchus tshawytscha

Stressor Details

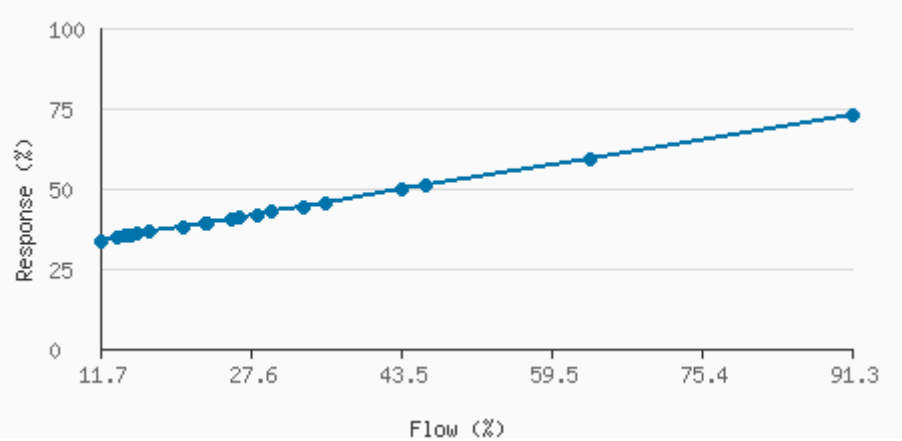
Stressor Name: Flow
Units: %
Metric: Mean Annual Discharge (MAD)
Scale: linear
Function Type: continuous
Vital Rate/Process: Total number of spawners

Life Stage & Context

Life Stages: Adults
Geography: Nicola River, BC, Canada
Activity: Spawning
Season: All seasons

Descriptions

Stressor Response Data



?PERCENT_MAD	Mean System Capacity (%)	SD	low.limit	up.limit
11.65536913	33.7311309	0	0	100
13.49328859	34.6317114	0	0	100
13.51208054	34.6409195	0	0	100
14.38926174	35.0707383	0	0	100
14.99161074	35.3658893	0	0	100
15.65167785	35.6893221	0	0	100
16.8	36.252	0	0	100
16.94630872	36.3236913	0	0	100
20.36946309	38.0010369	0	0	100
22.90268456	39.2423154	0	0	100

23.0385906	39.3089094	0	0	100
25.52885906	40.5291409	0	0	100
26.39899329	40.9555067	0	0	100
28.23993289	41.8575671	0	0	100
29.75268456	42.5988154	0	0	100
29.88288591	42.6626141	0	0	100
33.14295302	44.260047	0	0	100
35.56946309	45.4490369	0	0	100
43.72281879	49.4441812	0	0	100
46.19798658	50.6570134	0	0	100
63.53187919	59.1506208	0	0	100
91.34194631	72.7775537	0	0	100

Citations

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.