Mean Annual Discharge and Chinook Salmon

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Function Updated by leah.egeryhaley on Mon, 06/22/2026 - 22:02.

Species Information

Common Name: Chinook Salmon
Genus: Oncorhynchus tshawytscha

Stressor Details

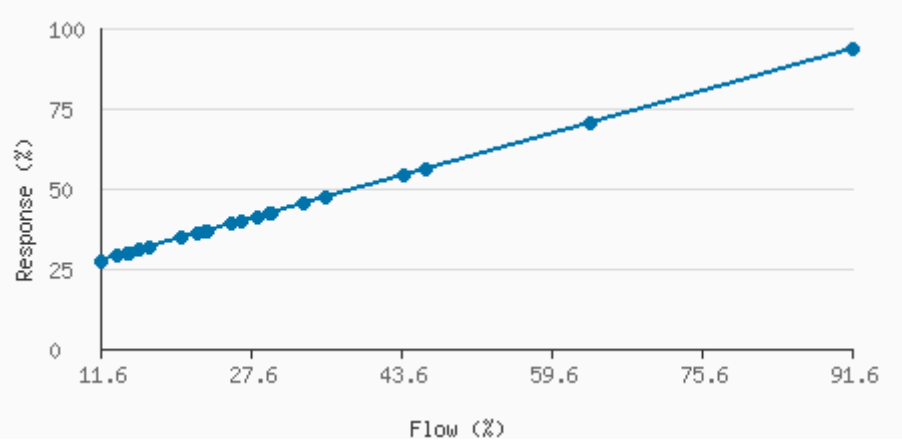
Stressor Name: Flow
Units: %
Metric: Mean Annual Discharge (MAD)
Scale: linear
Function Type: continuous
Vital Rate/Process: Residual recruits

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

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.