

Mean Annual Discharge and Chinook Salmon

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Function Updated by jrosenfeld on Tue, 02/24/2026 - 21:01.

Species Information

Common Name: Chinook Salmon
Genus: *Oncorhynchus tshawytscha*

Stressor Details

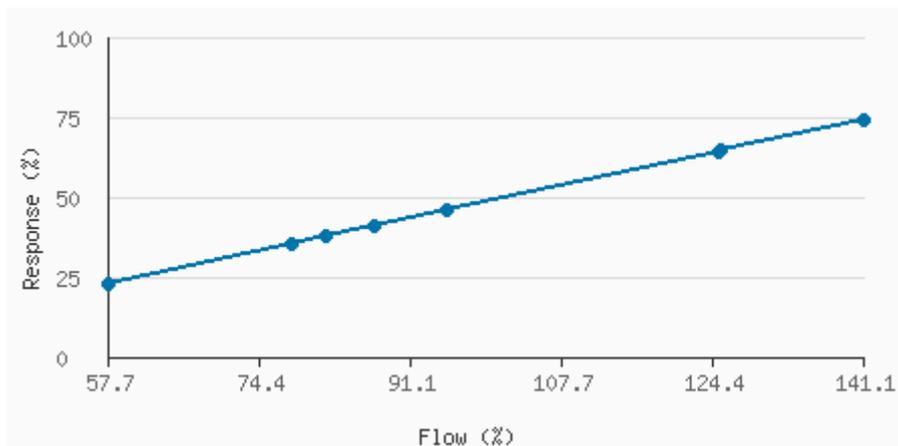
Stressor Name: Flow
Units: %
Metric: Mean Annual Discharge (MAD)
Scale: linear
Function Type: continuous
Vital Rate/Process: Egg-smolt survival

Life Stage & Context

Life Stages: Juvenile
Geography: Marsh Creek, Washington, USA
Season: Fall-Early Summer

Descriptions

Stressor Response Data



?PERCENT_MAD	Mean System Capacity (%)	SD	low.limit	up.limit
57.73684211	23.0694737	0	0	100
78.12105263	35.5038421	0	0	100
81.9	37.809	0	0	100
87.18421053	41.0323684	0	0	100
87.18947368	41.0355789	0	0	100
95.25789474	45.9573158	0	0	100
125.2210526	64.2348421	0	0	100
125.4526316	64.3761053	0	0	100
141.0631579	73.8985263	0	0	100

Citations

"Arthaud, D.L., Greene, C.M., Guilbault, K., and Morrow, J.V. Jr. 2010. Contrasting life-cycle impacts of stream flow on two Chinook salmon populations. *Hydrobiologia* 655: 171-188."