

# Mean Annual Discharge and Chinook Salmon

Downloaded on: 2026-05-25, From: <https://mjbayly.com/stressor-response/mean-annual-discharge-and-chinook-salmon-0>  
Function Updated by jrosenfeld on Tue, 02/24/2026 - 21:01.

## Species Information

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

## Stressor Details

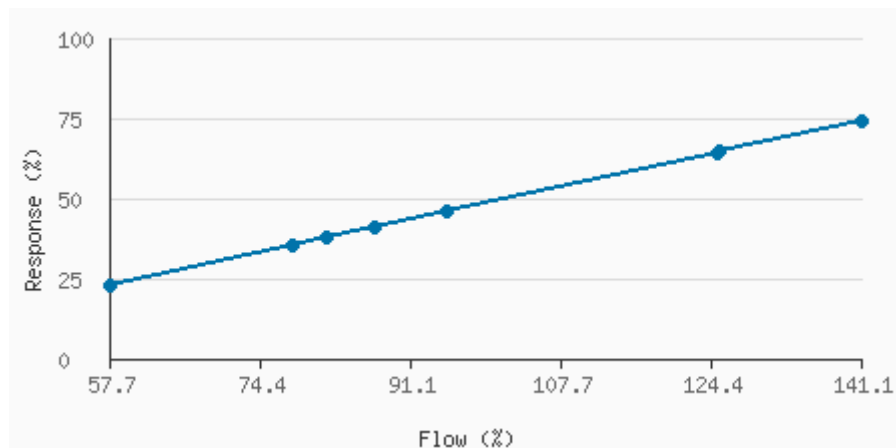
**Stressor Name:** Flow  
**Units:** %  
**Metric:** Mean Annual Discharge (MAD)  
**Scale:** linear  
**Function Type:** continuous  
**Vital Rate/Process:** Egg-smolt survival

## 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."