

Pool Surface Area and Number of Chinook Salmon

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Species Information

Common Name: Chinook Salmon
Genus: *Oncorhynchus tshawytscha*

Stressor Details

Stressor Name: Pool Surface Area
Units: m²
Metric: Pool Surface Area
Scale: linear
Function Type: continuous
Vital Rate/Process: Density

Life Stage & Context

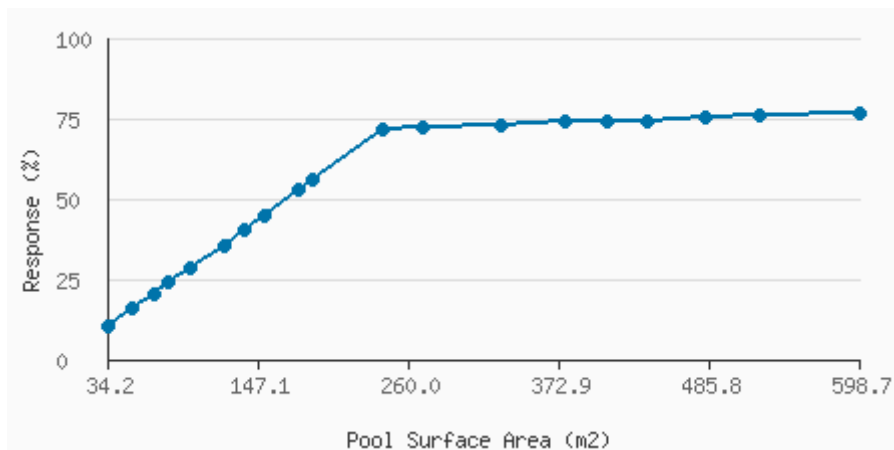
Life Stages: Juvenile
Geography: Idaho

Descriptions

Overview

Relation between pool surface areas in several Idaho streams and number of juvenile chinook salmon per pool. Graph measures that 100% of salmon = 200 salmon.

Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
34.18	10.21	0.61	0	100
53.16	15.7	7.93	0	100
69.62	20.58	3.05	0	100
79.75	23.93	0.3	0	100
96.2	28.2	14.94	0	100
121.52	35.21	7.93	0	100
136.71	40.4	2.74	0	100
151.9	44.66	16.16	0	100

177.22	52.59	8.23	0	100
188.61	55.95	4.88	0	100
240.51	71.8	15.85	0	100
270.89	72.1	15.55	0	100
330.38	73.02	19.21	0	100
378.48	73.93	18.29	0	100
410.13	73.93	18.29	0	100
440.51	74.24	17.99	0	100
483.54	75.15	19.82	0	100
524.05	75.76	19.21	0	100
598.73	76.37	18.6	0	100
598.73	76.37	18.6	0	100

Citations

Bjornn, T. C., & Reiser, D. W. (1991). Habitat requirements of salmonids in streams. American Fisheries Society Special Publication, 19(837), 119.

References

https://www.for.gov.bc.ca/hfd/LIBRARY/FFIP/Bjornn_TC1991.pdf -
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