

# Bjornn & Reiser1991: Dissolved Oxygen and Coho Salmon Embryo

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Function Updated by mbayly on Tue, 02/17/2026 - 21:39.

## Species Information

**Common Name:** Coho Salmon

**Genus:** *Oncorhynchus kisutch*

## Stressor Details

**Stressor Name:** Dissolved Oxygen

**Units:** mg/L

**Metric:** Dissolved Oxygen Concentration

**Scale:** linear

**Function Type:** continuous

**Vital Rate/Process:** Survival

## Life Stage & Context

**Life Stages:** Egg

**Activity:** Incubation

## Descriptions

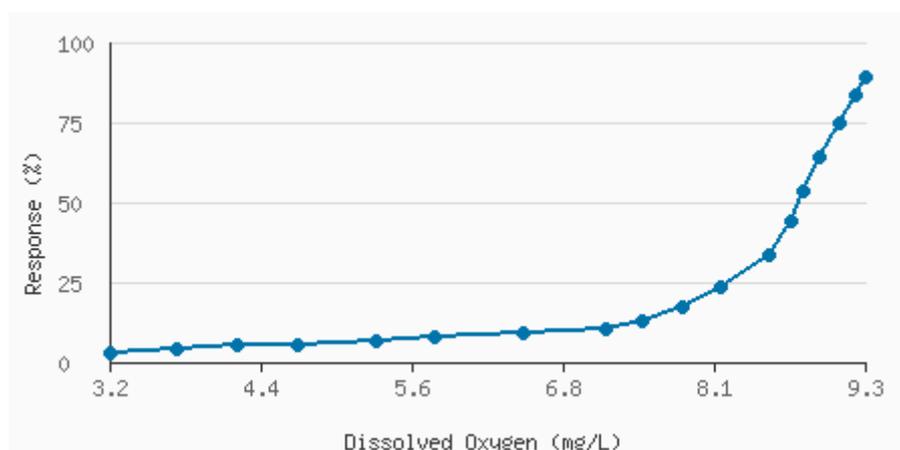
### Overview

Relation between dissolved oxygen concentration and survival of coho salmon embryos in natural redds.

### Function Derivation

field study

## Stressor Response Data



Stressor (X)	Mean System Capacity (%)	SD	low.limit	up.limit
3.16	3.06	3.67	0	100
3.7	4.29	3.27	0	100
4.19	5.1	5.71	0	100
4.68	5.51	5.31	0	100

5.32	6.33	8.16	0	100
5.8	7.55	6.94	0	100
6.52	9.18	6.94	0	100
7.19	10.41	20.41	0	100
7.48	12.86	17.96	0	100
7.81	17.35	26.53	0	100
8.12	23.47	20.41	0	100
8.51	33.67	31.43	0	100
8.68	44.29	44.08	0	100
8.79	53.27	35.1	0	100
8.92	64.29	34.69	0	100
9.07	74.49	25.31	0	100
9.2	83.47	16.73	0	100
9.28	88.78	11.43	0	100
9.28	88.78	11.43	0	100

## Citations

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Bjornn, T. C., & Reiser, D. W. (1991). Habitat requirements of salmonids in streams. American Fisheries Society Special Publication, 19(837), 105.

## References

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[https://www.for.gov.bc.ca/hfd/LIBRARY/FFIP/Bjornn\\_TC1991.pdf](https://www.for.gov.bc.ca/hfd/LIBRARY/FFIP/Bjornn_TC1991.pdf) -  
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