Mean Annual Discharge and Brook Trout

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Function Updated by jrosenfeld on Tue, 02/24/2026 - 21:19.

Species Information

Common Name: Brook Trout
Genus: Salvelinus fontinalis

Stressor Details

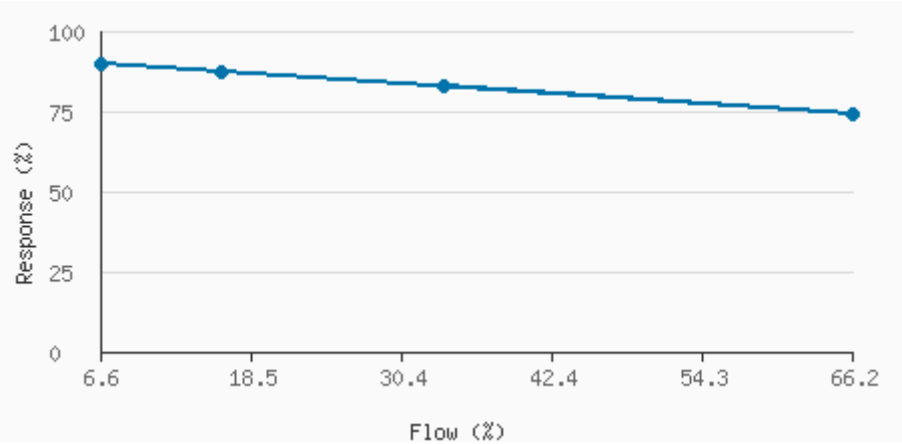
Stressor Name: Flow
Units: %
Metric: Mean Annual Discharge (MAD)
Scale: linear
Function Type: continuous
Vital Rate/Process: Density

Life Stage & Context

Life Stages: Adults, Juvenile
Geography: Hunt Creek, Michigan, USA
Season: Spring to Fall

Descriptions

Stressor Response Data



?PERCENT_MAD	Mean System Capacity (%)	SD	low.limit	up.limit
66.17647059	74.2341176	0	0	100
66.17647059	74.2341176	0	0	100
33.82352941	82.6458824	0	0	100
66.17647059	74.2341176	0	0	100
16.17647059	87.2341176	0	0	100
66.17647059	74.2341176	0	0	100
6.617647059	89.7194118	0	0	100
66.17647059	74.2341176	0	0	100

Citations

Andrew J. Nuhfer, Troy G. Zorn, Todd C. Wills. 2017. Effects of reduced summer flows on the brook trout population and temperatures of a groundwater-influenced stream. Ecology of Freshwater Fish 2017: 26: 108–119.