

Mean Annual Discharge and Brown Trout

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Function Updated by jrosenfeld on Tue, 02/24/2026 - 21:11.

Species Information

Common Name: Brown Trout
Genus: Salmo trutta

Stressor Details

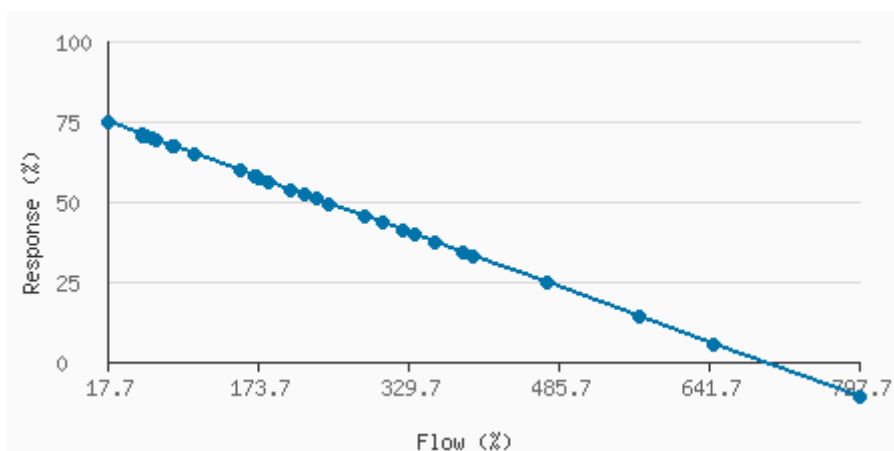
Stressor Name: Flow
Units: %
Metric: Mean Annual Discharge (MAD)
Scale: linear
Function Type: continuous
Vital Rate/Process: Density standardized to site maximum

Life Stage & Context

Life Stages: Adults, Juvenile
Geography: Arkansas, Gunnison, Rio Grande, South Platte and Cache la Poudre
Activity: All activities
Season: All seasons

Descriptions

Stressor Response Data



| ?PERCENT_MAD | Mean System Capacity (%) | SD | low.limit | up.limit |
|--------------|--------------------------|----|-----------|----------|
| 17.71 | 74.7019 | 0 | 0 | 100 |
| 54 | 70.71 | 0 | 0 | 100 |
| 54.93 | 70.6077 | 0 | 0 | 100 |
| 58.66 | 70.1974 | 0 | 0 | 100 |
| 64.24 | 69.5836 | 0 | 0 | 100 |
| 69.43 | 69.0127 | 0 | 0 | 100 |
| 85.64 | 67.2296 | 0 | 0 | 100 |
| 87.5 | 67.025 | 0 | 0 | 100 |
| 108.91 | 64.6699 | 0 | 0 | 100 |
| 156.59 | 59.4251 | 0 | 0 | 100 |

| | | | | |
|--------|----------|---|---|-----|
| 170.33 | 57.9137 | 0 | 0 | 100 |
| 172.19 | 57.7091 | 0 | 0 | 100 |
| 173.12 | 57.6068 | 0 | 0 | 100 |
| 174.31 | 57.4759 | 0 | 0 | 100 |
| 186.13 | 56.1757 | 0 | 0 | 100 |
| 208.29 | 53.7381 | 0 | 0 | 100 |
| 221.59 | 52.2751 | 0 | 0 | 100 |
| 234.88 | 50.8132 | 0 | 0 | 100 |
| 248.18 | 49.3502 | 0 | 0 | 100 |
| 285.11 | 45.2879 | 0 | 0 | 100 |
| 302.83 | 43.3387 | 0 | 0 | 100 |
| 304.31 | 43.1759 | 0 | 0 | 100 |
| 323.52 | 41.0628 | 0 | 0 | 100 |
| 336.81 | 39.6009 | 0 | 0 | 100 |
| 357.49 | 37.3261 | 0 | 0 | 100 |
| 387.04 | 34.0756 | 0 | 0 | 100 |
| 397.38 | 32.9382 | 0 | 0 | 100 |
| 474.19 | 24.4891 | 0 | 0 | 100 |
| 570.22 | 13.9258 | 0 | 0 | 100 |
| 647.03 | 5.4767 | 0 | 0 | 100 |
| 797.71 | -11.0981 | 0 | 0 | 100 |

Citations

Wilding, T.K., and Poff, L. 2008. Flow-ecology relationships for the watershed flow evaluation tool: Appendix B. 49pp.