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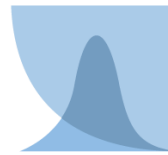
## Dr. Joe Thorley R.P.Bio.

Fish Population Biologist

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**Poisson**  
C O N S U L T I N G

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**Background:** Dr. Joe Thorley R.P.Bio. is an experienced field biologist, analyst and statistical programmer who has worked internationally for both government and the private sector. Poisson Consulting Ltd. is a Canadian consulting company that specializes in fish population biology and statistical ecology.

**Expertise:** Fish surveys, population ecology, stock assessment, fish movements and habitat use, salmonid spawning, population conservation, regulated rivers, statistical analysis and study design.

**Certification:** Occupational River Safety Technician (Level 3), Backpack Electrofishing (Crew Supervisor), Occupational First Aid (Level 1), MED-A3, Pleasure Craft Operators Card, Driver's Licence (Class V), PADI Diver (Advanced Open Water), Firearm Possession and Acquisition Licence and Avalanche Skills Training (Level 1).

**Affiliations:** College of Applied Biology, Association of Professional Biologists of British Columbia, American Fisheries Society and Columbia Mountains Institute.

**Education:** Ph.D. in Phylogenetics from Bristol University (2000) and B.A.(Hons.) in Biological Sciences from Oxford University (1995).

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### **Recent Projects:**

- **Lardeau River**, British Columbia. 2008-2009. Snorkel surveys to estimate abundance of juvenile Gerrard rainbow trout throughout the river.
  - **Kootenay Lake**, British Columbia. 2007-2009. Tagging and acoustic tracking study to estimate angler exploitation and natural mortality of large bull trout and Gerrard rainbow trout.
  - **Columbia River**, British Columbia. 2007-2008. Age-structured mark-recapture analysis to estimate changes in the abundance of rainbow trout and mountain whitefish populations.
  - **Columbia Basin**, British Columbia. 2007-2008. Assessment of aquatic habitat losses and gains due to BC Hydro dams in the Columbia Basin.
  - **Duncan and Lardeau Rivers**, British Columbia. 2006-2009. Field studies to estimate habitat suitability for spawning Gerrard rainbow trout.
  - **Rivers Tay, Tweed, Spey, and Dee**, Scotland. 2006-2008. Time series analysis of Atlantic salmon rod catch data over half a century to estimate long-term changes in abundance.
  - **Loch Rannoch**, Scotland. 2006-2007. Analysis of angler mark-recapture data to estimate ferox trout abundance Angler exploitation of large piscivorous (ferox) brown trout.
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**Recent Publications:**

- **Thorley JL** and Andrusak GF (2009) Fishing and natural mortality of Gerrard rainbow trout: A pilot study. A *Poisson Consulting Ltd. and Redfish Consulting Ltd. report for Habitat Conservation Trust Foundation, Victoria, BC.*
  - **Thorley JL** and Malcolm AI (2009) Gerrard gravels groundwater preliminary assessment. A *Poisson Consulting Ltd. report for Fish and Wildlife Compensation Program – Columbia Basin, Nelson, BC.*
  - Ford D, Irvine R, **Thorley J**, Schmidt D and Hildebrand L (2009) Large river fish indexing program – Lower Columbia River 2008 Phase 8 investigations. A *Golder Associates Ltd. report for BC Hydro, Revelstoke, BC.*
  - **Thorley JL** (2008) Aquatic habitat losses and gains due to BC Hydro Dams in the Columbia Basin. A *Poisson Consulting Ltd. report prepared for Fish and Wildlife Compensation Program – Columbia Basin, Nelson, BC.*
  - **Thorley JL**, Laughton, R & Youngson AF. (2007) Seasonal variation in rod recapture rates indicates differential exploitation of Atlantic salmon, *Salmo salar*, stock components. *Fisheries Management and Ecology*. **14**: 191-198.
  - Thorne A, MacDonald AI & **Thorley JL**. (2007) Catch and release of large, piscivorous ferox trout (*Salmo trutta*) in Loch Rannoch, Scotland. *Proceedings of the 9th Wild Trout Symposium*, West Yellowstone, Montana.
  - Chadwick S, Knights B, **Thorley JL** & Bark A. (2007) A long-term study of population characteristics and downstream migrations of the European eel, *Anguilla anguilla* (L.) and the effects of a migration barrier in the Girnock Burn, north-east Scotland. *Journal of Fish Biology*. **70**: 1535-1553.
  - Youngson AF, MacLean JC, Bacon PJ, Godfrey JD, Smith GW and **Thorley JL**. (2007) Salmon assessment in Scotland: bringing information resources in line with recent research on methods. *Scottish Fisheries Research Report* No 68.
  - **Thorley JL** and Bowers J (2006) Gerrard rainbow spawning habitat assessment: water depth and velocity over the main spawning gravels on the Lardeau River during low flows. For *Ministry of the Environment, Nelson, BC.*
  - **Thorley JL**, Eatherley DMR, Stephen AB, Simpson I, MacLean JC & Youngson AF (2005) Congruence between automatic fish counter data and rod catches of Atlantic salmon (*Salmo salar*) in Scottish rivers. *ICES Journal of Marine Science*. **62**: 809-817.
  - McKenzie-McHarg A, **Thorley JL**, Youngson AF & Soulsby C (2004) Interpreting salmon rod catch data: river flow, catchability and angler effort. *Atlantic Salmon Trust Report, Scotland.*
  - Youngson AF, Malcolm AI, **Thorley JL**, Bacon PJ & Soulsby C (2004) Long-residence groundwater effects on incubating salmonid eggs: low hyporheic oxygen impairs embryo development. *Canadian Journal of Fisheries and Aquatic Sciences*. **61**: 2278-2287.
  - Stefanni S & **Thorley JL** (2003) Mitochondrial DNA phylogeography reveals the existence of an Evolutionarily Significant Unit of the sand goby *Pomatoschistus minutus* in the Adriatic (Eastern Mediterranean). *Molecular Phylogenetics and Evolution* **28**:601-609.
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