

# Todd L Dubreuil

USGS/Biological Resources Division  
S.O. Conte Anadromous Fish Research Center  
One Migratory Way - P.O. Box 796  
Turners Falls, MA 01376

Office: 413 863-3869  
Fax: 413 863-9810  
Email: todd\_dubreuil@usgs.gov

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## EDUCATION

1998 University of Massachusetts, Amherst, Bachelor of Science in Biology.  
1995 Greenfield Community College, Liberal Arts, Biology.  
1986 Turners Falls High School, Turners Falls, MA, Diploma received.

Computer Experience: DOS, Microsoft Windows 3.1, 95, 98, Statistica, Microsoft Office (Access, Excel, Internet Explorer, Outlook, Power Point, Word) Word Perfect, Optimas 6, Reference Manager, Mini Mon and Multi Mon (Pit-tag software), Juniper Pro 400, Graphics software: Cad Key, Corel Draw, Windows Paint, Adobe PhotoShop

## FISHERIES EMPLOYMENT

1/06-present **Fisheries Ecologist**, Conte Anadromous Fish Research Center, Turners Falls, MA.  
**Supervisor** – Dr Benjamin Letcher  
**Duties:** Organize, conduct and supervise laboratory and field research projects dealing with Atlantic salmon, Brown trout and Brook trout.

Major office duties:

- Compile, summarize, and analyze data
- Create charts and graphs for scientific reports and presentations in peer-reviewed journals and conferences
- Communicate research goals and information to peers as well as the public audiences
- Plan and design research of ecology of fresh water fish and stream salmonids
- Create sampling schedule, oversee and coordinate daily tasks and activities.
- Organize and maintain department inventory and budget

Major field duties-

- Coordinate, supervise and conduct research on stream salmonids
- Supervise technicians and interns, as well as assist students.
- Develop and design PIT tag antenna technology and use in field and lab studies.
- Maintain and repair field sampling and data logging equipment.

- Maintain and download PIT tag, and environmental data logging stations.

8/98-12/05

**Biological Technician**, Conte Anadromous Fish Research Center, Turners Falls, MA.

**Supervisor** – Dr Benjamin Letcher

**Duties:** Organize, conduct and supervise laboratory and field research projects dealing with Atlantic salmon, Brown trout and Brook trout.

Major office duties:

- Compile, summarize, and analyze data
- Create charts and graphs for scientific reports and presentations in peer-reviewed journals and conferences
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Major field duties-

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- Develop and design PIT tag antenna technology and use in field and lab studies.
- Maintain and repair field sampling and data logging equipment.
- Maintain and download PIT tag, and environmental data logging stations.

8/95-8/98

**Biological Technician**, Conte Anadromous Fish Research Center, Turners Falls, MA.

**Supervisor** – Dr Stephen McCormick

**Duties:** Conduct or assist with projects dealing with American shad and Atlantic salmon Restoration.

Major office duties:

- Compile, summarize data

Major Lab/ field duties-

- Assit with research on stream salmonids.
- Organize and maintain integrity of biological samples.
- Maintain and design closed and recirculating systems (salt and fresh water) for culture and maintenance of cold water fishes
- Perform biochemical and enzyme assays
- Repair field sampling and data logging equipment.
- Maintain and download environmental data logging stations.

5/95-8/95

**Field Technician**, Conte Anadromous Fish Research Center, Turners Falls, MA.

**Supervisor** – Dr Boyd Kynard

**Duties:** Assist with projects dealing with American shad and Shortnose sturgeon.

Major Lab/ field duties-

- Organize and maintain integrity of biological samples.
- Gill and drift netting.
- Application of radio tags and radio telemetry.
- Repair field sampling equipment.
- Boat operation
- Beach and boat seining.

## **PUBLICATIONS**

Sigourney, D.B., G.E. Horton, T.L. Dubreuil, A.M. Varady, B.H. Letcher. 2005. Electroshocking and PIT tagging juvenile Atlantic salmon: are there interactive effects on growth and survival? *N. Am. J. Fisheries Manag.*, 25(3):1016-1021.

Letcher, B.H., G.E. Horton, T. Dubreuil, M.J. O'Donnell. 2005. Field estimates of the change in strength and direction of selection differentials after accounting for emigration, *Evol. Ecol. Res.* 5:130-132

Letcher, B.H., T. D. Dubreuil, M. J. O'Donnell, M. Obedzinski, K. Griswold and K. Nislow 2004. Long-term consequences of variation in timing and manner of fry introduction on juvenile Atlantic salmon growth, survival and life history expression, *Can J. Fish. Aquat. Sci.*, 61:2288-2301

## **PRESENTATIONS**

Dubreuil, T.L., M. O'Donnell, G. Horton, Letcher, B. H. Detecting Emigration with PIT Tag Antennas: Variations Seasons, Species and Age. American Fisheries Society, 2003 Annual Meeting, Quebec City, Quebec, CAN.

Dubreuil, T.L. Pit-tag Antenna technology. America Fisheries Society, Atlantic International Chapter. Lake Winipесаaukee. 2001.

Dubreuil, T.L., G. Horton, B.H. Letcher, Small Stream Coil Development. NMFS PIT tag antenna workshop, Manchester, WA, December, 2001.

Letcher, B.H., T.D. Dubreuil, and G. Gries. Incorporation of PIT tag antennas into a long-term, detailed tagging study in a small stream. Columbia River Fisheries Program Office, Vancouver, WA, December, 2001.

Dubreuil, T.L. Ecology section mission statement. Open house presentation. 2000, 2001

Dubreuil, T.L. Atlantic salmon and other fishes of the Connecticut River. Turners Falls Rod and Gun Club, Youth

day. Turners Falls, MA 01376. 1996 to 2005.

Dubreuil, T.L. Overwinter Survival of Juvenile Atlantic salmon. Oral presentation at Conte Anadromous Fish Research Center, 1 Migratory Way, Turners Falls, MA 01376. 1997.

Letcher, B. H., G. Horton, T. D. Dubreuil, M. O'Donnell, Selection on body size in juvenile Atlantic salmon: power of multi-state mark-recapture models to detect size dependent survival, Ecological Society of America, 2004 annual meeting, Portland Oregon.

Letcher, B. H., G. Horton, T. D. Dubreuil, M. O'Donnell, No selection on size or growth in juvenile Atlantic salmon after accounting for emigration and probability of capture using a multistrata mark-recapture model, Evolutionary and Ecological Ethology of Fishes 2004 meeting, Saudakraukur, Iceland

Letcher, B. H., T. D. Dubreuil, M. O'Donnell, M. Obedzinski, and K Nislow, Life History Consequences of Variation in Stocking Date for Stream-Dwelling Atlantic Salmon Parr, American Fisheries Society, 2003 Annual Meeting, Quebec City, Quebec, CAN.

Letcher, B.H., T.D. Dubreuil, M.O. O'Donnell, M. Obedzinski and K. Nislow. Effects of timing of stocking on Atlantic salmon in the West Brook, MA. USFWS Forum on Atlantic Salmon research, Hadley, MA, February, 2003.

## **ACTIVITIES AND INTERESTS**