

Dana DeGraaf

Project Manager
Fisheries Biologist
Certified Scuba Diver



Capabilities

Ecological Studies:

- Habitat evaluation and characterization
- Endangered/threatened fish species
- Fish sampling/dive surveys
- Wildlife home range and habitat selection surveys
- Significant fish and wildlife identification
- Wildlife radio telemetry surveys
- Passive integrated tagging (PIT) surveys
- Water quality analysis
- Aquatic invertebrate sampling and taxonomy

Marine Ecology:

- Marine ecological surveys
- Essential Fish Habitat evaluations
- Impacts of invasive marine species
- Marine fisheries ecology
- Benthic surveys and sampling
- Dive surveys and sampling programs

Restoration:

- Habitat fragmentation and reconnection studies
- Aquatic habitat restoration design
- Long-term monitoring and evaluation of watershed restoration projects for endangered fish species

Biometrics:

- Experimental design
- Data collection, interpretation, and presentation
- Statistical analyses

Education

M.S., Zoology, 2004, University of New Hampshire. Excellence in Research Award.

B.S., Marine and Freshwater Biology, 2002, University of New Hampshire. Graduated *Cum Laude*. Highest Honors in the College of Life Sciences and Agriculture, 2001-2002. Dean's List, 1999-2002. Honors Thesis: Comparative feeding rates of invasive crabs on blue mussel populations in the Gulf of Maine.

Training and Certifications

- HAZWOPER certified
- Advanced SCUBA certified
- SSI Stress and Rescue and EANx
- PADI Rescue Diver and DAN⁺ O₂
- American Red Cross CPR and First Aid
- ESRI Arc GIS I&II

Mr. DeGraaf is a Project Manager and Field Scientist with expertise in ecological characterization and restoration in freshwater wetlands, streams and rivers, and in coastal estuaries and marine habitats. Mr. DeGraaf has a strong professional background in project management and wetland and stream ecology, and he specializes in restoring anadromous fish populations that have been impacted by a variety of physical (e.g., dams), biological (e.g., invasive fish and plants), and chemical (e.g., contaminants) factors.

He most recently coordinated cooperative habitat restoration projects involving Federal agencies, private landowners, and non-profit organizations. His prior experience also includes reptile telemetry tracking, amphibian toxicological studies, threatened fish population surveys, watershed reconnection, benthic invertebrate sampling, and marine fish, algae, and crustacean ecological studies in field areas throughout the United States.

Experience

Stantec Consulting, 2007-present. Project Manager.

Trout Unlimited, Boise, ID. Field Coordinator/Fish Biologist- Cooperative Native Trout Program. 2005-2007.

University of New England, Biddeford, ME. Biology Instructor/Marine Science Center Lab Coordinator. 2004-2005.

Bigelow Lab for Ocean Sciences, Boothbay Harbor, ME. Research Diver. 2004.

University of New Hampshire, Durham, NH. Research Assistant. 2002-2004.

Affiliations

- Trout Unlimited
- American Fisheries Society

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(207) 729-1199

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Recent Publications & Technical Reports

Williams, J.E., Colyer, W.T., Gillespie, N., Harig, A.L., DeGraaf, J.D., and McGurrin, J. 2006. A Guide to Native Trout Restoration, *Science to Protect and Restore Coldwater Fishes and their Habitats*.

Neville, H. and DeGraaf, J.D. 2006. Reconnecting Fragmented Lahontan Cutthroat Trout Habitats: Maggie and Willow Creek. Strategies for Restoring Native Trout Report.

DeGraaf, J.D., Harig, A.L., and Colyer, W.T. 2005. Willow Creek Riparian and Aquatic Habitat Restoration: Fish and Benthic Invertebrate Monitoring Activities in 2003 & 2004. National Fish and Wildlife Foundation Report.

DeGraaf, J.D. and Berlinsky, D.L. 2004. Cryogenic and Refrigerated Storage of Atlantic Cod (*Gadus morhua*) and Haddock (*Melanogrammus aeglefinus*) Spermatozoa. *Aquaculture* 234: 527-540.

DeGraaf, J.D. and Berlinsky, D.L. 2004. Cryogenic and Refrigerated of Rainbow Smelt (*Osmerus mordax*) Spermatozoa. *Journal of the World Aquaculture Society* 35(2): 224-231.

DeGraaf, J.D. and Tyrrell, M.C. 2004. Comparative feeding rates between *Carcinus maenas* and *Hemigrapsus sanguineus* on the blue mussel, *Mytilus edulis*. *Northeastern Naturalist* 11(2): 163-167.

DeGraaf, J.D., King V, W., Benton, C., and Berlinsky, D.L. 2004. Production and Storage of Sperm from the Black Sea Bass *Centropristis striata*. *Aquaculture Research* 35: 1457-1465.

DeGraaf, J.D. 2004. Sperm cryopreservation and storage from four finfish species. Master of Science Thesis. University of New Hampshire Press.

DeGraaf, J.D., Smith, N.G., and Berlinsky, D.L. Cryopreservation and computer-assisted motility assessment of Atlantic cod (*Gadus morhua*) spermatozoa. In: Proceedings from the ICES Symposium. Gadoid Mariculture: Development and Future Challenges. Bergen, Norway 13-16 June 2004. *ICES Journal of Marine Science*.

Presentations

DeGraaf, J.D. 2006. Reconnecting a Fragmented Watershed. Society for Rangeland Management, International Meeting, Reno, Nevada, 10-16 February.

Colyer, W.T., Sepulveda, A.J., DeGraaf, J.D., Harig, A.L. 2006. Adult post-spawn movements and juvenile outmigration of fluvial Bear River Bonneville cutthroat trout in the Thomas and Smiths Fork rivers, ID-WY. Montana Chapter American Fisheries Society Annual Meeting, Bozeman, Montana, 15-19 May.

DeGraaf, J.D. 2006. Review of Restoration Activities and LCT Response in Maggie Creek. Elko Field office of the Bureau of Land Management. Elko, Nevada, 19 April.

DeGraaf, J.D., Harig, A.L., and Colyer, W.T. 2006. Reconnecting fragmented Lahontan cutthroat trout (*Oncorhynchus clarki henshawi*) populations in northeastern Nevada. Idaho Chapter American Fisheries Society Annual Meeting. Idaho Falls, Idaho 14-17 February.

DeGraaf, J.D. 2006. Strategies for Restoring Native Trout: Reconnecting Fragmented Habitats. US Forest Service Interagency Meeting. Sparks, Nevada 17-19 January.

DeGraaf, J.D., Smith, N.G., and Berlinsky, D.L. 2004. Cryopreservation and computer-assisted motility assessment of Atlantic cod (*Gadus morhua*) spermatozoa. ICES Symposium. Bergen, Norway 13-16 June.