

MICHELLE B. STAHL, *Biometrician***EDUCATION**

M.S.	University of Wyoming, Laramie, Wyoming	2002	<i>Statistics</i>
B.S.	University of Vermont, Burlington, Vermont	1987	<i>Biology</i>

PROFESSIONAL EXPERIENCE

2003-Present	<i>Habitat Biologist</i> , Western EcoSystems Technology, Inc., Cheyenne, Wyoming
2002-2003	<i>Habitat Biologist</i> , Wyoming Game and Fish Department, Cheyenne, Wyoming
1999-2002	<i>Junior Biometrician</i> , Western EcoSystems Technology, Inc., Cheyenne, Wyoming
1998-2002	<i>Wildlife Biological Science Technician</i> , NPS, Badlands National Park
1996-1997	<i>Wildlife Biotechnician</i> , USGS, BRD, MESC
1992-1996	<i>Analyst/Programmer</i> , UAF, Juneau Center SFOS

PROFESSIONAL SUMMARY

Data Management: Michelle has extensive experience in data management and relational database Development having designed databases and developed field collection and data entry protocols and quality assurance procedures both independently and for clients. Michelle has designed databases from both existing field data collections and computer data files in a variety of formats.

Data Analysis: Michelle data analysis projects include bootstrap resampling, survival analyses, linear modeling, and distance sampling in addition to more basic statistical analyses. She has training in sampling and experimental design in addition to multivariate, time series, analysis of variance, regression, and categorical data analysis. Michelle has written several statistics programs to facilitate testing large amounts of data and large numbers of tests with automated input from and output to a database and the generation of publication quality tables and graphs. Statistics program development included: summary stats; one- and two-sample t-tests with calculated probability values; Monte Carlo randomization tests; Fisher's and Stouffer's methods for combining p-values; calculation of dissimilarity matrices for multi-dimensional scaling; and estimation of power for Fisher's and Stouffer's tests involving the simulation of data from empirical distributions. Michelle has experience in simulation and computing using Fortran, Pascal, C, SAS, S-Plus, Arcview, Microsoft Access and Paradox.

Wildlife Research and Management: Ecological field research and wildlife monitoring projects include field sites in Alaska, South Dakota, and Wyoming. Specific studies include: waterfowl brood surveys, monitoring waterfowl staging and migration; monitoring pacific walrus haul-out sites; and post-release monitoring of bighorn sheep. She has developed and implemented protocols for ground and aerial surveys and the net-gun capture and radio-collaring of bighorn sheep and has extensive experience in tracking radio-collared individuals from both the ground and the air (fixed-wing and helicopter).

Habitat Research and Management: Field sites have included Alaska, South Dakota, Vermont, and Wyoming. Specific studies have included acid rain monitoring, impacts of harvest management strategies in Tongass old growth, requirements for successful post-mining reclamation in Alaska, plant ID in mixed-grass prairies, biomass estimation, and habitat restoration and monitoring in arid land sagebrush shrub-steppe communities. Sampling experience includes line and belt transects, quadrats and repeated measures.

Fisheries Research: Michelle has experience conducting sport and commercial fisheries research in Alaska. Specific studies included rainbow trout population size estimation and habitat use assessment, salmon escapement estimation, effects of wavelength and intensity of light on parasite detection in cod fillets, juvenile salmonid predation estimation and salmon harvest estimation. Sampling experience includes seining, trapping, and rod and reel.

ORGANIZATIONAL MEMBERSHIPS

The Wildlife Society

SELECTED PROFESSIONAL PUBLICATIONS

- Nielson, R., **M.B. Stahl**, and L. McDonald. 2005. 2005 Aerial Survey for Moose (*Alces alces*) on the Alaska Peninsula/Becharof NWR. Prepared for Alaska Peninsula/Becharof National Wildlife Refuge.
- Erickson, W.P., G. D. Johnson, D. P. Young, Jr., M. D. Strickland, R.E. Good, M. Bourassa, K. Bay and K. Sernka. 2002. Synthesis and Comparison of Baseline Avian and Bat Use, Raptor Nesting and Mortality Information from Proposed and Existing Wind Developments. Technical Report prepared for Bonneville Power Administration, Portland, Oregon.
- Bourassa, M.A. 2001. Bighorn sheep restoration in Badlands National Park, South Dakota: lessons for cooperation in 2001 George Wright Society Conference Proceedings. p. 112-117.