

**KIMBERLY J. BAY, *Biometrician***



### EDUCATION

M.S.	University of Wyoming, Laramie, Wyoming	2003	<i>Statistics</i>
B.S.	University of Wyoming, Laramie, Wyoming	2000	<i>Mathematics/Statistics</i>

### PROFESSIONAL EXPERIENCE

2005-Present	<i>Biometrician</i> , Western EcoSystems Technology, Inc., Cheyenne, Wyoming
2001-2005	<i>Data Technician</i> , Western EcoSystems Technology, Inc., Cheyenne, Wyoming
1999-2002	<i>Teaching Assistant</i> , Department of Statistics, University of Wyoming, Laramie, Wyoming

### SPECIALTY AREAS

**Data Analyst and Report Manager:** Due to large increase in wind-energy projects, Kimberly has taken on the role of managing the data analysis and report compiling for wind-energy projects. This requires the management of the data entry, qa/qc, analysis, report compiling, technical editing, and the personnel associated with these tasks.

**Database Creation and Management:** Kimberly has extensive consulting experience in the design and use of relational databases for statistical analysis. Kimberly primarily uses SAS, Arcview, Microsoft Access, and Microsoft Excel to manage data and visually display information. Kimberly has been involved in the creation of data entry forms in Microsoft Access to facilitate data entry and data collection sheets in word and excel to facilitate data collectors in the field.

**Resource Selection Functions:** Kimberly has been involved in estimating resource selection functions using data from field observations and data extracted from GIS layers. Specific examples include studies of habitat selection by moose on the Yukon Flats National Wildlife Refuge in Alaska, habitat selection by moose on the Kanuti National Wildlife Refuge in Alaska, and habitat selection by mountain goats in the Chugach National Forest in Alaska.

**Data Analysis:** Kimberly has conducted extensive data analysis to assess impacts of windpower development on birds, bats and other wildlife as a consultant for WEST. The work requires programming in SAS and R and the usage of Arcview, Excel, and Access. She has also completed several distance analyses on whales, birds and bats using the Distance program. Other statistical analyses completed include regression analysis, ANOVA, logistic regression and survival analysis.

### SELECTED PUBLICATIONS

- WEST, Inc. 2006. Wildlife Baseline Study for the Rugby Wind Power Project: Summary of Results from 2005 Wildlife Surveys. Technical report prepared for HDR Engineering, Inc. and PPM Energy, Inc.
- Anderson, R., W. P. Erickson, M. D. Strickland, M. Bourassa, **K. J. Bay**, K. J. Sernka, J. Tom, and N. Newmann. 2004. Avian Monitoring and Risk Assessment at the San Gorgonio Wind Resource Area. Subcontract Report for the California Energy Commission, the National Renewable Energy Laboratory, and the American Wind Energy Association.
- Johnson, G. D., M. D. Strickland, W. P. Erickson, and **K. J. Bay**. 2004. Final Report, Spring Migration Avian Studies for the Proposed Long Island Power Authority Offshore Wind Power Project, Long Island, New York. Technical Report Prepared for FPL Energy.
- Erickson, W. P., J. Jeffrey, K. Kronner, and **K. Bay**. 2004. Stateline Wind Project Wildlife Monitoring Final Report, July 2001 – December 2003. Technical report peer-reviewed by and submitted to FPL Energy, the Oregon Energy Facility Siting Council, and the Stateline Technical Advisory Committee.
- Erickson, W. P., G. D. Johnson, D. P. Young, Jr., M. D. Strickland, R. E. Good, M. Bourassa, **K. Bay**. 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.
- Young, Jr. D. P., W. P. Erickson, **K. Bay**, R. E. Good, and K. Kronner. 2002. Final Report, Baseline Avian Studies for the Proposed Maiden Wind Project, Yakima and Benton Counties, Washington. Technical Report prepared for Bonneville Power Administration, Portland, Oregon.