

Capability Statement

KDV Decision Analysis

Knowledge Data Values

Innovative solutions to gather, analyze, and communicate information from empirical data, expert knowledge, and stakeholder communities.



COMPANY DATA

WOSB, EDWOSB

DUNS: 079871764

EIN: 474038687

CAGE: 7FMV7

Primary NAICS: 541712, 541720,
541611, 518210, 519190

Primary PSC: AP26, B525, F019,
F099, AJ56, B529

CONTACT INFORMATION

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Owner, Lead Consultant

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CORE COMPETENCIES

Research Project Management

- Workshop facilitation to define research objectives and priorities
- Analytical approach to defining scientific questions
- Multiscale, multidisciplinary studies with diverse data types
- Knowledge gap analysis for strategic data collection
- Survey designs for terrestrial, aquatic, and marine systems
- Knowledge and values elicitation design

Data Analysis & Statistics

- Bayesian, maximum likelihood, and frequentist methods in R
- Simulation and scenario modeling for decision and policy support
- Decision prioritization with uncertainty and risk assessment
- Hierarchical and multilevel models to account for imperfect data and latent variables
- Emphasis on understanding effect size and assurance

Data Products

- Relational database design and construction with MySQL
- Interactive and reactive data visualization products in Shiny
- Web-based graphic user interfaces and applications
- Reproducible Research methods with R Markdown and knitr

DIFFERENTIATORS

- Experience combining quantitative and qualitative data from both natural and social sciences to address emergent challenges
- Emphasis on distinguishing complicated versus complex systems to ensure appropriate analysis methods
- Solutions that consider multiscale, multidisciplinary perspectives
- Published leader in the field of expert knowledge elicitation for application in landscape ecology, habitat assessment, and planning

PAST PERFORMANCE

Owner and lead consultant, Dr. Drew, has over 20 years research and consulting experience. Since 2006, as a co-PI, she has managed and collaborated on diverse multi-investigator, multi-year projects serving the USGS, USFWS Raleigh Ecological Services Field Office, USFWS Caribbean Ecological Services Field Office, NC Wildlife Resources Commission, Biofuels Center for NC, The Nature Conservancy, and Keystone Institute Field-to-Market program.



Ashton Drew, PhD