

## WISDOM Application Technical Specifications

### Client Software

- Browser (IE 8 or higher, Firefox, Chrome)

- Flash player 10.0 or higher

### Application development

- Flash Builder 4.5

- ESRI Flex API 2.2

### Services Software

- ESRI ArcServer for GIS 10.0

- ESRI File Geodatabase

### Server Setup (as of June 1 2012)

- 2 load balance servers

- Windows Server 2008 R2

- 64-bit OS

- 32.0 GB memory

- AMD Opteron Processor 2.80 GHz (2 Processors)

- Server hardware resides in the UW ITC Data Center providing

  - Backups

  - Redundant uninterruptable power

  - Climate control

### Security

- Network connections

## WISDOM Application Disclaimer

WISDOM is intended to provide useful, landscape-level information during the early stages of project planning. It does not replace or supersede site specific analysis with appropriate agencies. WISDOM should be used in concert with all available data and expertise to ensure project plans address wildlife and habitat conservation at all levels.

The WISDOM application consists of a variety of publicly available data layers contributed from data partners, and collected from other public sources. These datasets vary widely in their accuracy and scale. The use of this application and the data herein are at the discretion of the user. Refer to individual metadata records for access and use constraints for all datasets. No warranty is made by the Wyoming Geographic Information Science Center (WyGISC), the Wyoming Game and Fish Department, or their partners for the accuracy of these data.

## **WISDOM Application Data List**

<b>Dataset Categories for the WISDOM Application</b>	<b>Source</b>
Blue Ribbon and Other Designated Streams	WGFD
Crucial Stream Corridors	WGFD
Streams and Lakes Surveys	WGFD
Habitat Plans – Aquatic, Terrestrial, Combined	WGFD
SWAP Conservation Areas - 2010	WGFD
Sage Grouse Core and Connectivity Areas	WGFD
Wildlife Regions, Habitat Management Units	WGFD
Key Non-Game Wildlife Areas	WGFD
Big Game: Migration Corridor, Crucial and Parturition Habitat	WGFD
Sage Grouse Lek Information (Non-location specific)	WGFD
Raptor Nest Information (Non-location specific)	BLM
Species Distribution Models	WYNDD
Species Occurrence Data (Non-location specific)	WYNDD
Species Range Maps	WYNDD
USFWS Critical Habitat: Lynx, Desert Yellowhead, Colorado Butterfly Plant	USFWS
National Wetlands Inventory	USFWS
Cumulative Landscape Disturbance Model	TNC/WGFD
Major Wetland Complexes	TNC/WGFD
Conservation Easements	TNC
BLM No Surface Occupancy Areas	BLM
Water Designations – 303d and 305b	WDEQ
Agriculture – Irrigated, Dryland	WWDC
Pipelines – (Coarse General Overview)	WSGS
Transmission Lines – (Coarse General Overview)	USGS
Wind Development Locations	WDEQ
Oil and Gas wells	WOGCC
Land Ownership (Non-Private Lands, Federal Minerals)	BLM
Vegetative Land Cover (National Land Cover Dataset, Regional GAP Analysis)	USGS
Housing Development (2000, 2010)	US Census
Public Land Survey System (QQs, Sections, Townships)	Premier Services
Land Management Boundaries (NPS, USFS, UWFWS, BLM, State, Etc.)	Multiple
Special Management Areas (BLM, NPS, USFS, USFWS, State, Etc.)	Multiple
Base Data: Elevation (30 meter Digital Elevation Model)	USGS
Base Data: Topographic Maps (250,000, 100,000, 24,000 Series Maps)	USGS
Base Data: Imagery (2009, 2006 NAIP Aerial Photography)	Multiple
Base Data (transportation, water, towns, boundaries)	Multiple

## WISDOM Application Project Participants

### Overall Project Lead

Nordyke, Kirk – Wyoming Game and Fish Department

### Interagency Coordination

Flanderka, Mary – Wyoming Game and Fish Department

### Technical Lead

Hamerlinck, Jeff - Wyoming Geographic Information Science Center

### Oversight Committee Members

Beauvais, Gary – Wyoming Natural Diversity Database

Copeland, Holly – The Nature Conservancy

Emmerich, John – Wyoming Game and Fish Department

Flanderka, Mary – Wyoming Game and Fish Department

Hamerlinck, Jeff - Wyoming Geographic Information Science Center

Hicks, Scott – U.S. Fish and Wildlife Service

Huber, Rick – Wyoming Game and Fish Department

Kidner, Martin – Wyoming Department of Transportation

Kopplin, Chad – Wyoming Department of Environmental Quality

Morghem, Akram – Office of State Lands and Investments

Mundt, Jacob – Department of Enterprise Technology Services

Nordyke, Kirk – Wyoming Game and Fish Department

Wiggins, Randy – Natural Resources Conservation Service

### Data Management Team Members

Andersen, Mark – Wyoming Natural Diversity Database

Arnett, Melanie – Wyoming Natural Diversity Database

Berendsen, Margo – Wyoming Geographic Information Science Center

Gerhardt, Troy – Wyoming Game and Fish Department

Huber, Rick – Wyoming Game and Fish Department

Kopplin, Chad – Wyoming Department of Environmental Quality

Lindstrom, Jim – U.S. Fish and Wildlife Service

Nordyke, Kirk – Wyoming Game and Fish Department

Polzer, Phil – Wyoming Geographic Information Science Center

Wyckoff, Teal – Wyoming Geographic Information Science Center

### Application Advisory Group Members

Andersen, Mark – Wyoming Natural Diversity Database

Berendsen, Margo – Wyoming Geographic Information Science Center

Copeland, Holly – The Nature Conservancy

Gerhardt, Troy – Wyoming Game and Fish Department

Huber, Rick – Wyoming Game and Fish Department

Nordyke, Kirk – Wyoming Game and Fish Department

Polzer, Phil – Wyoming Geographic Information Science Center

Wiggins, Randy – Natural Resources Conservation Service

Wyckoff, Teal – Wyoming Geographic Information Science Center

### Western Governors' Association Liaison

Madeleine West – Western Governors' Association

## WISDOM Application Testers

**Abbott, Tyler – U.S. Fish and Wildlife Service**

**Adams, Cindy – BKS Environmental Associates, Inc.**

**Bannon, Joy – Wyoming Wildlife Federation**

Blomquist, Frank – Bureau of Land Management

**Bornong, Bernie – U.S. Forest Service**

**Brekke, Matt – AECOM**

**Clark, Aaron – Wyoming Game and Fish Commission**

**Clayson, Tom – Anadarko**

Covington, Scott – U.S. Fish and Wildlife Service

Dicke, Scott – Olsson Associates

**Edmunds, Daly – Audubon Rockies**

**Epperson, Wade – SWCA Environmental Consultants**

Glennon, Jim – Bureau of Land Management

**Guegel, Kathy – British Petroleum**

**Heidel, Bonnie – Wyoming Natural Diversity Database**

Hoch, Tony – Wyoming Association of Conservation Districts

**Houston, Kent – U.S. Forest Service**

**Jensen, Brian – Natural Resources Conservation Service**

Johnson, Greg – WEST, Inc.

**Jones, George – Wyoming Natural Diversity Database**

Karhu, Rory – Natural Resources Conservation Service

**Keefe, Chris – Bureau of Land Management**

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Lockman, Dave – Pathfinder Wind

Lynch, Luke – The Conservation Fund

Lyon-Holloran, Alison – Audubon Wyoming

**Martin, Spencer – Wasatch Wind**

**Mundt, Jacob – Department of Enterprise Technology Services**

**Osborn, Sophie – Wyoming Outdoor Council**

**Ostheimer, Bill – Bureau of Land Management/ Buffalo Field Office**

**Peckham, Erika – Natural Resources Conservation Service**

Poulton, Victoria – WEST, Inc.

**Purves, Cathy – Trout Unlimited**

**Saville, Dennis – Bureau of Land Management**

**Scheenbeck, Casey – The Nature Conservancy**

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Stelter, Vern – Vern Stelter Consulting

**Taylor, Renee – Taylor Environmental**

**Tronstad, Lusha – Wyoming Natural Diversity Database**

Vana, Jordan – Wyoming Land Trust

**Wilbert, Connie – Sierra Club, Wyoming Chapter**

**KEY:**

**Participated**

Invited