REQUEST FOR PROPOSALS

Focal Habitat Feature Identification Project for Teton County, Wyoming

May 9, 2013

I. Purpose

Teton County intends to enter into a contract with a professional consultant to develop a map and description of Focal Habitat Features (FHFs) and Valuable Matrix Features (VMFs) in Teton County. Based on available data on wildlife and wildlife movement the consultant and Natural Resource Technical Advisory Board will use the vegetation map of Teton County to identify the FHFs that are crucial to the health of native species and then describe the relative value of areas of the landscape between FHFs and organize these areas into VMFs. The final product will be a Geographic Information System (GIS) layer of FHFs and VMFs and their characteristics that will be used to update habitat protection regulations for Teton County and the Town of Jackson.

II. Background

The Jackson/Teton County Comprehensive Plan calls for the protection of the health of native species through a system of regulations and requirements that are based relative value of habitat. Teton County is currently under contract with Cogan Technology Inc. to develop a Geographic Information System (GIS) digital layer of designated vegetation and non-vegetation cover-types on all lands in Teton County, Wyoming, excluding those under federal ownership by the US Forest Service, US Fish and Wildlife Service, and National Park Service. Teton County intends to use the vegetation map along with the work produced out of this proposal to update its Land Development Regulations regarding habitat protection.

III. Scope of Work and Services

Task A. Compile Available Wildlife Data

1. Develop GIS overlays for all wildlife species with adequate datasets relevant to Teton County. A list of known available datasets is described in Appendix A. All GIS layers developed will have thorough metadata documentation.
    a. Overlays will include: areas of crucial and noncrucial winter, winter yearlong, and spring/summer/fall range, migration corridors, nesting areas, spawning areas, areas of wildlife motor vehicle collisions, and parturition areas where adjacent to or within private lands.
    b. The wildlife datasets will be rasterized to overlay the Teton County vegetation GIS layers (available 7.15.13)
2. Develop pertinent thematic vegetation, aquatic/riparian and topographic feature map layers that illustrate vegetation cover-type arrays, patterns, proportions and dispersions.

Task B. Develop a Classification System for FHFs and VMFs

3. Facilitate a series of meetings with the members of the Natural Resource Technical Advisory Board to identify Focal Habitat Features (FHF's) and relative values of areas within the landscape matrix lying between the identified FHF's - Valuable Matrix Features (VMFs) - based upon the wildlife and vegetation layers
    a. Develop the identifying criteria for FHF's
    b. Develop identifying criteria for the matrix tiers relative to all private lands in Teton County
4. Develop text and a spreadsheet table describing the ecological function of each identified FHF, that will be used in the design of habitat protection land development regulations.
5. Develop text and a spreadsheet table describing the ecological relationships and connectivity between FHFs

6. Develop text and a spreadsheet table regarding the ecological relationships and connectivity between the VMFs and the FHFs

Task C. Map and Describe FHFs and VMFs

1. Develop a GIS layer illustrating the boundaries of the FHFs of Teton County as per the criteria developed in Task B using clear vegetation cover-type edges, clear topographic features or private property boundaries where cover-type edges and/or clear topographic features are absent.
2. Develop a GIS layer illustrating the VMFs overlaying all private lands in Teton County using the criteria developed in Task B, using pertinent cover-type array boundaries, topographic features, soil data, documented wildlife occurrence and movement data, and established relationships with FHFs.
3. Construct a final report to the Teton County and Town of Jackson Planning Departments that compiles and presents all metadata and GIS Map layers, text, spreadsheet and tabular information, and selection and delineation criteria.

IV. Estimated Cost of Services

The County has not yet budgeted for this item. The Consultant shall provide a detailed breakdown of services by tasks with hours, personnel, and cost of each task, including a total estimated cost of services.

V. Insurance Requirements

A. Insurance

The Consultant shall provide at its own expense the following insurance for its business entity and its employees in connection with the work required under this contract:

1. Worker's Compensation: Statutory.
2. General Public and Auto Liability: $1,000,000 each occurrence and aggregate.

B. Liability

The Consultant shall indemnify and hold harmless the County against all forms of liability, claims, damages, demands, and including attorney fees, of every kind and nature and attributable to bodily injury, sickness, disease, or death, or to damage or destruction of property resulting from or in any manner arising out of or in connection with the performance of work under this contract.

VI. Employment Discrimination Prohibited

During the performance of a contract awarded pursuant to this "Request for Proposals," the Consultant agrees to not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Consultant, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, will state that the Consultant is an equal opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for meeting these requirements.

VII. Proposal Content

At a minimum, proposals shall contain the following information:

A. Understanding: Consultant's understanding of project intent and scope, required services and work product;

B. **Consultant Qualifications**: Qualifications of the Consultant, including a current company profile, qualifications of specific individuals who will provide the services and work product required for this project, conservation ecology and corridor ecology credentials, their availability and time commitment, and examples of similar completed work and client references;

C. **Insurance**: Required coverage (Workers' compensation, General public and auto liability);

D. **Timetable**: for completion of work including key milestones;

E. **Fee for Services**: with breakdown by tasks, budget time and cost per task, and including all expenses;

F. **Conditions and Additional Services**: Specific contract and performance conditions, including hourly rates for additional services; and,

G. **Exceptions**: Any exceptions to the requirements of this Request for Proposals.

VIII. Special Provisions

A. **Fee for Services and Payments**: Invoicing and Payment terms shall be in accordance with the provisions of the Teton County Policies Handbook, Bid/Contract, Services – Contracting.

B. **Award of Contract**: The County shall select a Consultant and award a contract based upon the following criteria:

1. Demonstrated understanding of project scope and scope of Consultant services;
2. Qualifications to perform required services;
3. Cost basis, fee for services, and terms of payment;
4. References of provider, and years in business;
5. Ability to meet time requirements and proposed work plan; and
6. Adequate insurance (verified with insurance required in bid specification).

The County may negotiate with two or more respondents. After negotiation with selected respondents, the County shall select the one that, in its opinion, has made the best overall presentation and cost projections. If the County determines that only one respondent meets the qualifications, it may enter into negotiations with that respondent.

C. **Reservation of Rights**: Teton County reserves the right to reject any and all proposals, to waive irregularities in proposals received, to reject non-conforming, non-responsive or conditional proposals, and to accept the proposal that in the County's sole judgment best serves the interests of Teton County, Wyoming.

D. **Proposal Delivery**: Proposals must be received at the Teton County Planning & Development Department by

4:00 pm, June 13, 2013

Proposals received after this time and date will be returned unopened. It is the responsibility of the respondent to ensure the proposal arrives on time. Please provide seven bound copies and one electronic copy of the proposal. Mail or deliver proposals to:

Susan Johnson
Teton County Planning & Development Department
P.O. Box 1727
200 S. Willow
Jackson, WY 83001.

Fee for Services proposal shall be firm for 6 months, beginning June 13, 2013

E. **Required Compliance**: The respondent awarded the contract shall be required to comply with all Teton County, State of Wyoming, and Federal requirements related to the contract.

Please direct any questions or requests for additional information regarding this Request for Proposals to Susan Johnson at the Teton County Planning & Development Department, (307) 733-3959.

Appendix A

Known Available Data Sets

The objective is to provide a thorough update and expansion of the report and GIS layers produced by the Teton Science Schools Conservation Research Center (TSS-CRC) for the Jackson Hole Conservation Alliance, "Evaluation of the Natural Resource Overlay (NRO) in Teton County, Wyoming", April, 2008. This document provides excellent metadata for each wildlife species mapped. It will be considered the starting point for source data. Morgan Graham, TSS-CRC, conducted the spatial analysis, mapping and metadata compilation for the report. He is still employed at TSS-CRC and can be contacted at (307) 413-5635.

TSS-CRC also has the most complete and robust road kill information for all wildlife species in Teton County. They have coordinated with multiple agencies and organizations to develop the most inclusive data set available. Morgan Graham is the contact person for this data set; (307) 413-5635.

The RFP should include a spatial analysis of wildlife movements throughout the valley. Sawyer et al (2011) recently developed the Brownian bridge movement model which identifies important migration routes and stop-over areas associated with mule deer movement across the landscape. This tool should be employed to evaluate stop-over or sites (micro sites) along movement corridors/passages through Teton County. An understanding of this tool can be acquired from: Sawyer, H.S., M.J. Kauffman. 2011. Stopover ecology of a migratory ungulate. Journal of Animal Ecology 80:1078-1087.

Managers are currently delineating important use areas, home ranges and seasonal ranges using ArcGIS software to conduct fixed kernel analyses. These software tools will be used to delineate important species use probability areas (high use probability areas) within Teton County in addition to movement corridors/passages. Sources of information relating to kernel analysis are:

Laver, Pete. 2005. Kernal Home Range Estimator for ArcGIS, using VBA and ArcObjects. Department of Fisheries and Wildlife Sciences, Virginia Tech, 149 Cheatham Hall, Blacksburg, 24061-0321, 540.231.5320, plaver@vt.edu.
fixed kernel analyses

Fieberg, J. 2007b. Utilization distribution estimation using weighted kernel density estimators. Journal of Wildlife Management 71:1669–1675.

Rodgers, A.R., and Carr, A.P. 1998. HRE: The Home Range Extension for Arcview™: User's Manual. Centre for Northern Forest Ecosystem Research. Ontario Ministry of Natural Resources.

Supplemental data sources for spatial/temporal wildlife data are provided below. They should not be considered exhaustive, but be considered some of the primary sources of species specific spatial/temporal data sets useful to update the above mentioned wildlife layer. Additional and complementary data sets will arise as a result of conversations with the primary data source contacts.

All wildlife GIS map layers will define wildlife occurrence, distribution and movement at a very fine scale generated by computer modeling (Brownian Bridge Models, or Kernal Home Range Models) or using the Teton County vegetation cover-type maps (available 7.15.13) to identify pertinent vegetation cover-type edges or topographic patterns and/or arrays. If no vegetation and or topographic features are evident for guidance then private parcel boundaries will be used in delineating wildlife datasets.

Below is NRTAB's general knowledge of available data sets for focal species in Teton County (emphasis on private land and spatial data). This should not be considered a complete listing of available data sets. However, it will direct the contractor to multiple data sources which in turn will result in the identification of additional pertinent data sources. Full names of data sources and associated acronyms are:

CBS – Craighead Beringa South

GTNP – Grand Teton National Park

JHLT – Jackson Hole Land Trust

NMJH - Nature Mapping Jackson Hole

TRC – Teton Raptor Center

TSS-CRC – Teton Science Schools, Conservation Research Center

USFS-BTNF – US Forest Service, Bridger-Teton National Forest

USFWS – Us Fish and Wildlife Service

USFWS-NER – US Fish and Wildlife Service, National Elk Refuges

UW-CFWRU – University of Wyoming Cooperative Fish and Wildlife Research Unit

UW-WNDD – University of Wyoming, Wyoming Natural Diversity Database

WCS – Wildlife Conservation Society

WEST – Western EcoSystems Technology

WGFD -Wyoming Game and Fish Department

WWS – Wyoming Wetlands Society

Bald Eagle – Ecologically important locations include: documented nesting and territories, foraging areas.

- Known data sources:
    - WGFD – The WGFD conducts three (3) seasonal flights/year to document nest sites, recruitment, etc. That data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Contact– Susan Patla (WGFD) -307-733-2321
    - Harmata & Oakleaf, 1992, Bald Eagles in the Teton County, Wyoming with Appendix
    - CBS – They have recently conducted lead poisoning studies and have historically collected bald eagle related data for several decades. Data format is unknown. Contact – Brian Bedrosian (CBS – 307-734-0581.
    - GTNP – Source of general to specific data on numerous species. Contact – Steve Cain - 307-739-3485.
    - NMJH – This is a citizens' scientist program managed by the Jackson Hole Wildlife Foundation (JHWF) that reports and records all wildlife sittings electronically (over 24,000 current sittings). All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968
    - General information contained in Teton County development Environmental Assessments and Natural Resource Reviews
    - UW-WNDD - They focus primarily on species which are rare or less abundant. Contact – Dr. Gary P. Beauvais (WNDD Director) 307-766-3027.

Snake River Cutthroat Trout - Ecologically important locations include: spawning, connection/passages from rivers to spawning sites.

- Known Data Sources :
    - WGFD – General data including presence, absence, some localized surveys and population estimates. Important spawning locations along with passages from rivers to spawning locations have been identified. Montana State Univ. conducted the last research on Snake River Cutthroat Trout in Teton County. WGFD has that study and data. Contact – Rob Gipson (WGFD) - 307-733-2321
    - JHLT– General data associated with Conservation Easements on private lands. Contact – Tom Segerstrom (JHLT) - 307-733-4707
    - UW-WNDD - They focus primarily on species which are rare or less abundant. Contact – Dr. Gary P. Beauvais (WNDD Director) 307-766-3027

Trumpeter Swans – Ecologically important locations include: wintering areas, nest sites, brooding rearing sites, migration corridors.

- Known Data Sources
    - WGFD – The WGFD conducts four (4) seasonal flights/year to document nest sites, recruitment, brood rearing, etc. That data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Contact– Susan Patla (WGFD) -307-733-2321

- WWS – The organization focuses primary restoration of the Rocky Mountain Population of Trumpeter Swans and to protect. Contact – Drew Reed (WWS) – 307-699-2329.
- GTNP – Source of general to specific data on numerous species. Contact – Steve Cain (GTRNP) -307-739-3485.
- NMJH – This is a citizens' scientist program managed by the Jackson Hole Wildlife Foundation (JHWF) that reports and records all wildlife sittings electronically (over 24,000 current sittings). All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968
- USFWS-NER – Source of general to specific data on numerous species. Contact – Eric Cole – 307-733-9212.
- UW-WNDD - They focus primarily on species which are rare or less abundant. Contact – Dr. Gary P. Beauvais (WNDD Director) 307-766-3027

Elk - Ecologically important locations include**:** winter ranges, migration/movement/passage routes, calving areas

- Known Data Sources
  - WGFD – A plethora of data including but not limited to; annual midwinter flights, general year-round observations, numerous cooperative research studies, numerous VHF and GPS radio collar studies, harvest locations. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). The WGFD provides spatial illustrations of seasonal ranges. Definitions and temporal information relative to these seasonal ranges can be acquired from them and/or the Wy Chapter of The Wildlife Society. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321, Brandon Scurlock (WGFD) – 307-367-4353. Ben Wise (WGFD) – 307733-2321
  - GTNP – A plethora of data including but not limited to; lead and cooperator in numerous elk related projects, many of them involving VHF and GPS radio collars. GTNP recently contracted WEST for a GPS radio telemetry study. Contact – Sarah Dewey (GTNP) – 307-739-3488. Hall Sawyer (WEST) – (307) 634-1756.
  - USFWS-NER - – A plethora of data including but not limited to; lead and cooperator in numerous elk related projects, many of them involving VHF and GPS radio collars. Contact – Eric Cole (NER) - 307-733-9212.
  - NMJH – Citizens scientists have recorded several hundred elk observation on private and adjacent public lands in Teton County. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968.
  - TSS-CRC – Doug Wachob conducted a snowtracking migration study with USFWS-NER from 1999-2001. Contact – Doug Wachob - (TSS)- 307-734-3733.

Mule Deer - Ecologically important locations include**:** winter ranges, migration/movement/passage routes, calving areas

- Known Data Sources

- WGFD – A significant amount of data including but not limited to; annual midwinter flights/ground counts, general year-round observations, cooperative studies with UW-CFWRU and TSS-CRC. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). The WGFD provides spatial illustrations of seasonal ranges. Definitions and temporal information relative to these seasonal ranges can be acquired from them and/or the Wy Chapter of The Wildlife Society. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321, Gary Fralick (WGFD) – 307-883-2998.
- TSS-CRC – They are about complete a multi-year GPS radio telemetry study of mule deer in the immediate area surrounding Jackson. All collars detached from adult female mule deer during December, 2012. Data analysis and report writing is pending. Contact – Brenda Younkin (TSS-CRC Director) – 307-413-2280.
- UW-FWCRU & WEST- They have been conducting on-going GPS radio collar mule deer studies for multiple years. Mule deer were collared on winter range south and south west of Pinedale and some have made it to the Jackson area to summer. Contacts – Hall Sawyer (WEST) -307- 634-1756, Gary Fralick (WGFD) – 307-883-2998, Dr. Matt Kauffman – 307-766-6404.
- NMJH - Citizens scientists have recorded several hundred mule deer observation on private and adjacent public lands in Teton County. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contacts – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)- 307-733-2321..
- GTNP – They will have probably have limited data but are worth contacting. Contact – Sarah Dewey (GTNP) – 307-739-3488.
- Biota Consulting 1979-1990, 12 years of mule deer winter distribution and telemetry data in Jackson Hole

Moose - Ecologically important locations include**:** winter ranges, migration/movement/passage routes, calving areas.

- Known Data Sources
  - WGFD – A significant amount of data including but not limited to; annual midwinter flights/ground counts, general year-round observations, cooperative studies with UW-CFWRU. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). The WGFD provides spatial illustrations of seasonal ranges. Definitions and temporal information relative to these seasonal ranges can be acquired from them and/or the Wy Chapter of The Wildlife Society. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321, Gary Fralick (WGFD) – 307-883-2998.
  - NMJH – An annual mid-winter moose count has been conducted by citizens scientists for the past 4 years. Individuals are assigned to specific geographic areas and conduct moose counts on a specific day. Reports are in GIS/word format. Contacts – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)- 307-733-2321, Morgan Graham (TSS-CRC) – 307-413-5635.
  - GTNP – They will have some spatial data on moose. Contact – Sarah Dewey (GTNP) – 307-739-3488.

- UW-FWCRU – They have conducted two GPS radio collar studies in the Jackson/Buffalo Valley area and will have limited information on moose spatial/temporal data. Most of it will be in the Buffalo Valley area with limited data along the lower reaches of the Gros Ventre. Contacts - Dr. Matt Kauffman – 307-766-6404, Scott Becker -307-349-2803.
- WCS – They conducted VHF radio collar studies for multiple years in the greater Jackson area. Contact – Dr. Joel Berger (now at University of Montana) 406-243-5540.

Greater Sage-Grouse - Ecologically important locations include**:** winter ranges, nesting, brood rearing

- Known Data Sources
  - WGFD – Considerable data can be found in the WGFD's electronic Wildlife Observation System (WOS). Seasonal ranges and "core area" habitats have been delineated and are available in GIS format. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321, Gary Fralick (WGFD) – 307-883-2998.
  - NMJH – Citizens scientists have entered numerous greater sage-grouse sightings over the past four years. Most of the sightings have been downloaded into the WGFD WOS. Contacts – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)- 307-733-2321, Morgan Graham (TSS-CRC) – 307-413-5635.
  - CBS – They have recently conducted GPS radio collar studies. They also conduct an annual winter count local citizen scientist. Contact – Brian Bedrosian (CBS) – 307-734-0581.
  - UW-CFWRU – Dr. Matt Holloran collected VHF radio collar information on greater sage-grouse in the greater Jackson area (GTNP and the Gros Ventre drainage) while acquiring his PHD. Contact – Dr. Matt Holloran -307-367-2765.
  - GTNP – They should have some spatial/temporal data with emphasis on leks. Contact – Steve Cain (GTNP) – 307-739-3485.
  - USFWS-NER – At least one lek is located on the NER and they will have spatial/temporal related to that lek. Contact – Eric Cole (NER) - 307-733-9212.

<u>Others to assist with verification of KHF's less likely matrix tiers:</u>

Osprey - Ecologically important locations include**:** winter ranges, nesting, and brood rearing

- Known Data Sources
  - WGFD – Considerable data can be found in the WGFD's electronic Wildlife Observation System (WOS). Contact – Susan Patla (WGFD)– 307-733-2321.
  - NMJH – Citizens scientists have created an "osprey project" whereby approximately 50 nest sites are documented and monitored for productivity on public and private lands. All sightings are vetted by biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Susan Patla (WGFD) 307-733-2321
  - CBS – They currently have an ongoing GPS radio collar study in progress and may have additional spatial/temporal data. Contact - Brian Bedrosian (CBS) – 307-734-0581.
  - TRC – They may possibly have spatial/temporal data on osprey. Contact – Roger Smith – 307-203-2551.

Red-tailed Hawk - Ecologically important locations include**:** nesting, and brood rearing

- Known Data Sources
    - WGFD – Considerable data can be found in the WGFD's electronic Wildlife Observation System (WOS). Contact – Susan Patla (WGFD)– 307-733-2321.
    - NMJH – Citizens scientists have document numerous sightings on private and public lands. All sightings are vetted by biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Susan Patla (WGFD) 307-733-2321
    - CBS – They currently have conducted studies on this species and have spatial/temporal data. It's format is unknown. Contact - Brian Bedrosian (CBS) – 307-734-0581.
    - TRC – They may possibly have spatial/temporal data on osprey. Contact – Roger Smith – 307-203-2551.

Bighorn Sheep (May not be pertinent to private lands, CHF's or MTI's) - Ecologically important locations include: winter range and migration/movement/passage routes

- Known Data Sources
    - WGFD – A plethora of data including but not limited to; annual midwinter flights, general year-round observations, one recent cooperative research study with UW-FWCRU, some current VHF and GPS radio collar studies and harvest locations. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). The WGFD provides spatial illustrations of seasonal ranges. Definitions and temporal information relative to these seasonal ranges can be acquired from them and/or the Wy Chapter of The Wildlife Society. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321, Gary Fralick (WGFD) – 307-883-2998.
    - GTNP – Much data including a VHF radio collar study in the 1990's. They were also partners in the recent UW-FWCRU study involving GPS collars. Contact – Sarah Dewey (GTNP) – 307-739-3488.
    - UW-FWCRU – They are in just completing a GPS radio collar study. Contact – Aly Courtemanch (WGFD and grad student on the project) – 307-733-2321
    - USFWS-NER - Bighorn sheep primarily utilize Miller Butte on the NER. Contact – Eric Cole (NER) - 307-733-9212.
    - NMJH – Citizens scientists have recorded many bighorn sheep observation on private and adjacent public lands in Teton County. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch – 307-733-2321.

Pronghorn (May not be pertinent to private lands, CHF's or MTI's) - Ecologically important locations include: winter range and migration/movement/passage routes

- Known Data Sources

- WGFD – Considerable data including but not limited to; annual summer ground counts, general year-round observations, and harvest locations. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). The WGFD provides spatial illustrations of seasonal ranges. Definitions and temporal information relative to these seasonal ranges can be acquired from them and/or the Wy Chapter of The Wildlife Society. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321
- GTNP – Has been conducting annual summer aerial counts and has partnered with WCS on radio collar studies. Contact – Sarah Dewey (GTNP) – 307-739-3488.
- WCS - Has been conducting radio telemetry studies for several years. Contact – Renee Seidler – 435-760-7267
- USFWS-NER – Pronghorn frequent the NER almost annually. Contact – Eric Cole (NER) - 307-733-9212.
- NMJH – Citizens scientists have recorded many pronghorn observation on private and adjacent public lands in Teton County over the past 4 years. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch – 307-733-2321.
- USFS-BTNF – They have collected data related to the pronghorn migration through the Gros Ventre drainage and have focused mostly on public lands. Contact – Kerry Murphy (BTNF) – 307-739-5411
- UW-FWCRU & WEST – They have radio telemetry data from the pronghorn migration through the Gros Ventre. Contact – Hall Sawyer (WEST) -307- 634-1756
- JHLT – They may have some data from conservation easement monitoring on private lands. Contact – Tom Segerstrom – 307-733-4707.

Black Bear- Ecologically important locations include: conflict areas, summer range, and migration/movement/passage routes and dens.

- Known Data Sources
  - WGFD – Considerable data including but not limited to; general year-round observations, conflict locations and harvest locations. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Records concerning bear management removal and problem areas on private lands. Contacts – Doug Brimeyer (WGFD)– 307-733-2321, Gary Fralick (WGFD) – 307-883-2998.
  - GTNP – General data. Contact – Sarah Dewey (GTNP) – 307-739-3488.
  - NMJH – Citizens scientists have recorded some black bear observations. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)– 307-733-2321.

Grizzly Bear (May not be pertinent to private lands, CHF's or MTI's) - Ecologically important locations include: conflict areas, summer range, and migration/movement/passage routes and dens.

- Known Data Sources

- WGFD – Considerable data including but not limited to; general year-round observations, conflict locations, numerous radio collared bears and management removal/relocation sites. Much of that data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Contacts – Mark Bruscino (WGFD)– (307) 527-7322, Dan Bjornlie (WGFD) -307- 332-2688
- GTNP – Radio collar, conflict locations, and general data. Contact – Sarah Dewey (GTNP) – 307-739-3488.
- NMJH – Citizens scientists have recorded some grizzly bear observations. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)– 307-733-2321.

Mtn. Lion - Ecologically important locations include: conflict areas, year-long habitat, and migration/movement/passage routes.

- Known Data Sources
  - WGFD – Considerable data including but not limited to; general year-round observations, conflict locations, some radio collared data and management removal/relocation sites. Much of the general observation data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Contacts – Mark Bruscino (WGFD)– (307) 527-7322, Dan Thompson (WGFD) -307- 332-2688, Doug Brimeyer (WGFD) 307-733-2321
  - GTNP – Unsure of available data. Contact – Sarah Dewey (GTNP) – 307-739-3488.
  - CBS – They have 10+ years of radio telemetry data. Contact – Brian Bedrosian (CBS) – 307-734-0581.

Coyote - Ecologically important locations include: year-round habitat.

- Known Data Sources
  - WGFD – General year-round observations. Most of the data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Contacts – Doug Brimeyer (WGFD)– -307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321.
  - NMJH – Citizens scientists have recorded numerous coyote observations. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)– 307-733-2321.
  - UW PHd Dissertations and Masters Thesis by Franz Caminzind, Nate McClennan and Rachel Wigglesworth, respectively

Gray Wolf (May not be pertinent to private lands, CHF's or MTI's) - Ecologically important locations include: year-round habitat, movement passages, conflicts.

- Known Data Sources
  - USFS – They have maintained radio collars on wolves since their occupancy in Teton Co. Contact – Mike Jimenez (USFWS) – 307-330-5631.
  - GTNP – They have partnered with USFWS on radio collar studies. Contact – Sarah Dewey (GTNP) – 307-739-3488.

    - WGFD – General year-round observations and started GPS collaring wolves this past year. General observation data is maintained in the WGFD's electronic Wildlife Observation System (WOS). Radio collard data will probably not have been analyzed Contacts – Ken Mills (WGFD) – 307-367-4353,Doug Brimeyer (WGFD)–307-733-2321, Aly Courtemanch (WGFD)– 307-733-2321
- NMJH – Citizens scientists have recorded numerous wolf observations. All sightings are vetted by two biologists prior to final entry in the NMJH and WGFD WOS. Vetted NMJH data is downloaded into the WGFD WOS. Contact – Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)– 307-733-2321

Pica (May not be pertinent to private lands, CHF's or MTI's) - Ecologically important locations include: year-round habitat, hay piles

- Known Data Sources
    - TSS-CRC and NMJH – Emphasis has been placed on documenting pica sightings for the past 3 years through a collaborative "Pica Project" in NMJH. TSS-CRC also conducted a pica presence/absence study across the B-T Forest and partnered some with GTNP. In addition citizens scientists have made numerous observations which have been vetted and placed in the NMJH and WOS data bases. Contacts – Embere Hall (TSS-CRC now grad student) -307-413-2253, Leigh Work (JHWF) – 307-739-0968, Aly Courtemanch (WGFD)– 307-733-2321
    - WGFD – General year-round observations with data maintained in the WGFD's electronic Wildlife Observation System (WOS). Aly Courtemanch (WGFD)– 307-733-2321