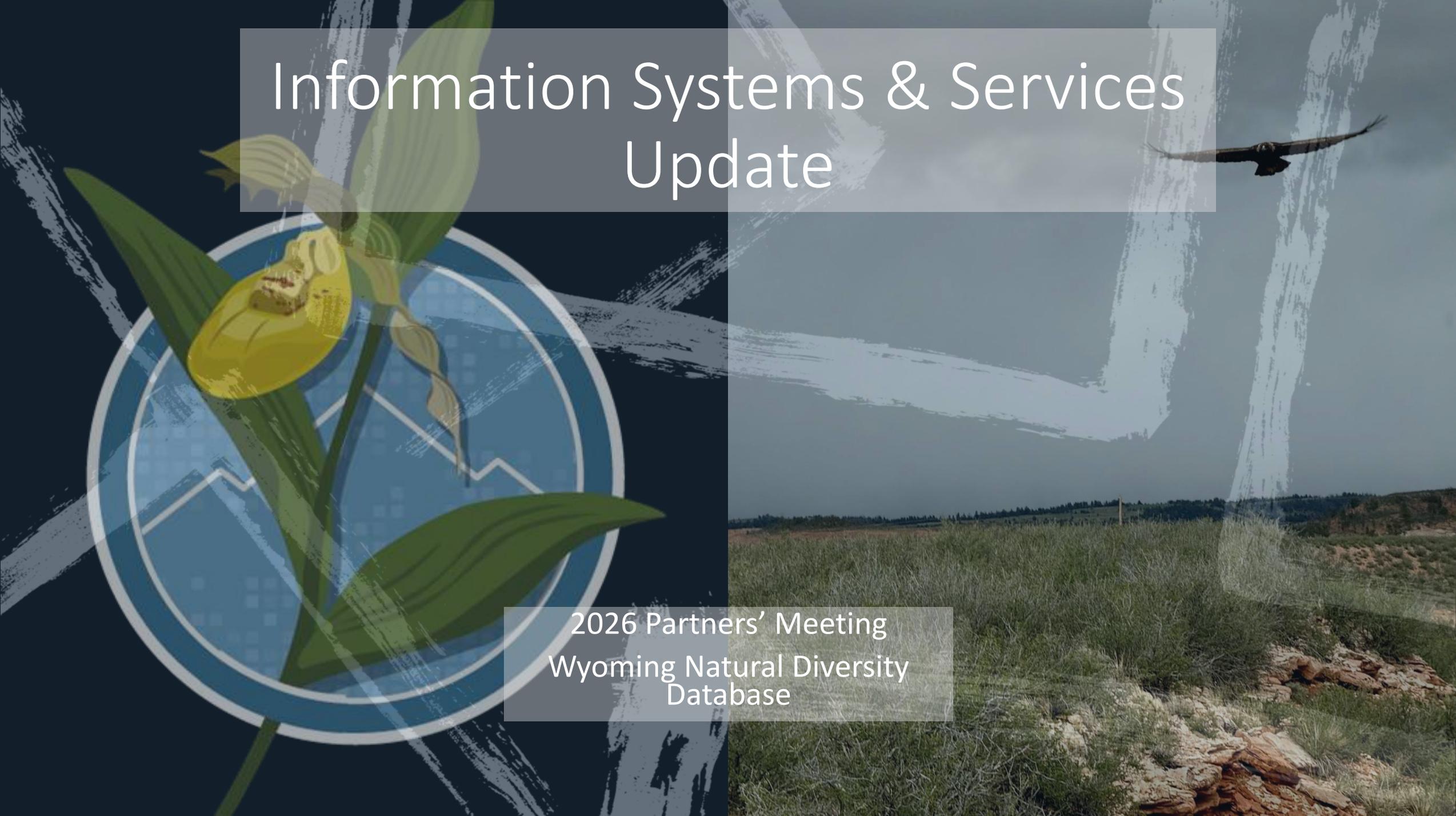
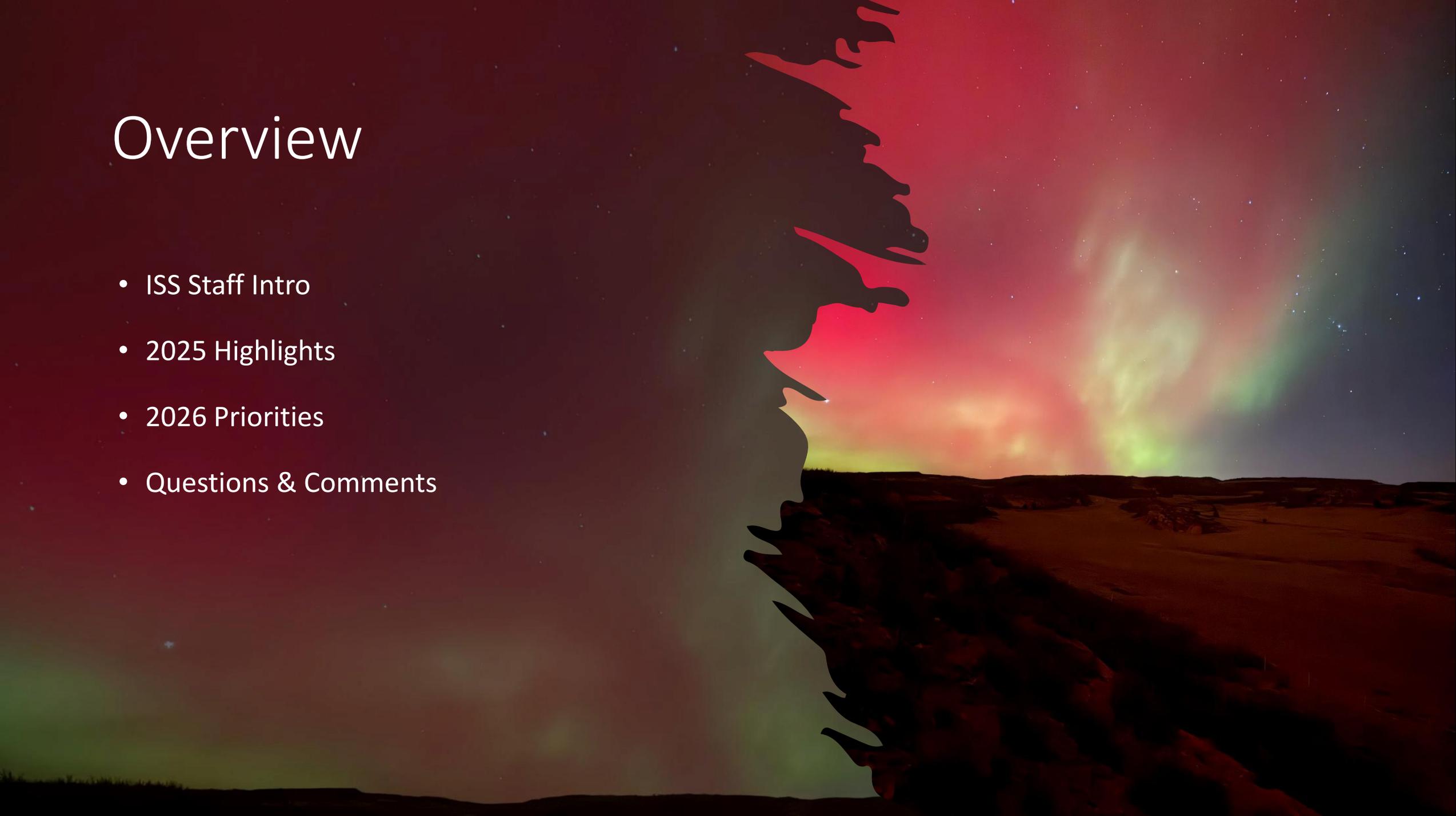


Information Systems & Services Update

2026 Partners' Meeting
Wyoming Natural Diversity
Database



Overview



- ISS Staff Intro
- 2025 Highlights
- 2026 Priorities
- Questions & Comments

Information Systems and Services



Melanie Arnett
Database Developer

WYNDDer Since 2005



Venky Vasiraju
Full-Stack Developer

WYNDDer Since 2019



Ian Abernethy
Associate Director
Zoology Program Manager

WYNDDer Since 2011



Doug Vander Wilt
Database Developer

WYNDDer Since 2025

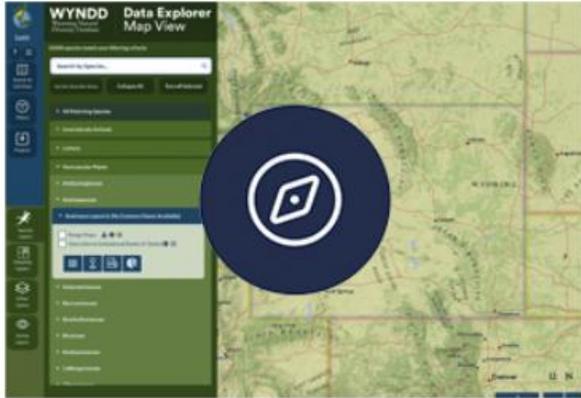
Current Supplemental Core Funding Partners

Funding Partner	Annual Funding
Wyoming Governor's Office (ESA Account)	\$176,391
U.S. Forest Service, Region 2	\$20,000
U.S. Forest Service, Region 4	\$17,000
BLM Wyoming	\$14,000
Natural Resources Conservation Service	\$10,000
U.S. Fish and Wildlife Service (WY Ecological Services)	\$7,000
The Nature Conservancy	\$7,000
Wyoming Weed & Pest Council	\$2,000

OUR APPLICATIONS AND DATA

- Four Public Data and Information Apps

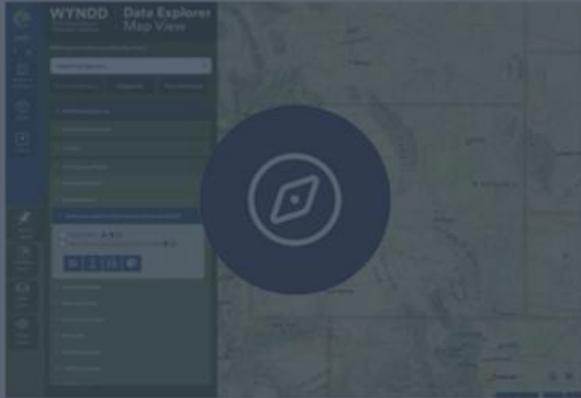
OUR APPLICATIONS AND DATA



1. Data Explorer

Explore and download spatial data and create custom species lists for your area and species of interest.

OUR APPLICATIONS AND DATA



1. Data Explorer

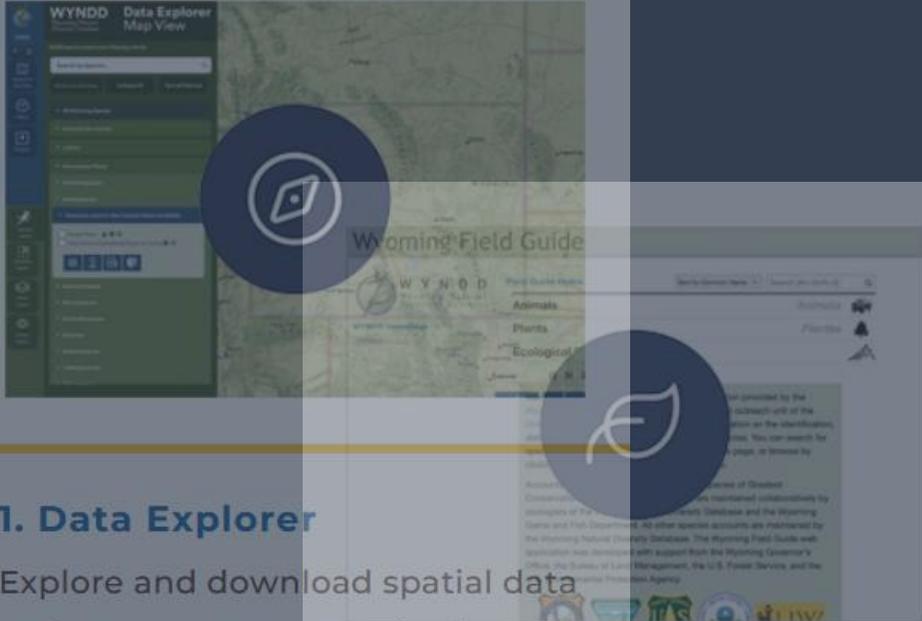
Explore and download spatial data and create custom species lists for your area and species of interest.



2. Wyoming Field Guide

Browse current, Wyoming specific information, photos, and maps for species and habitats.

OUR APPLICATIONS AND DATA

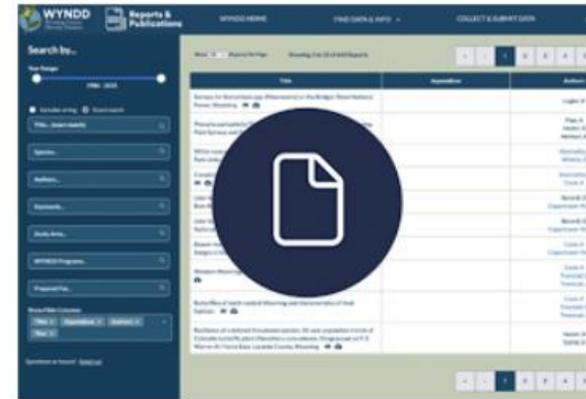


1. Data Explorer

Explore and download spatial data and create custom species lists for your area and species of interest.

2. Wyoming Field Guide

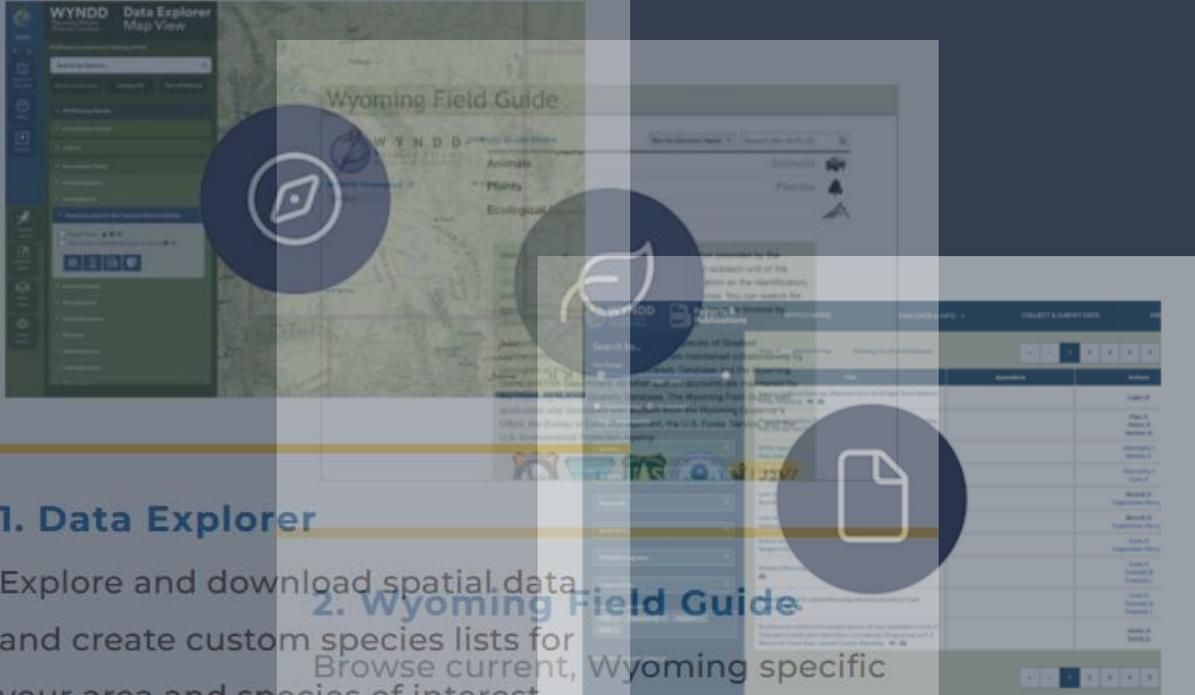
Browse current, Wyoming specific information, photos, and maps for species and habitats.



3. Reports & Publications

Find and download reports about our projects.

OUR APPLICATIONS AND DATA



1. Data Explorer

Explore and download spatial data and create custom species lists for your area and species of interest.

2. Wyoming Field Guide

Browse current, Wyoming specific information, photos, and maps for species and habitats.

3. Reports & Publications

Find and download reports about our projects.

Species Photo Gallery

Welcome! Find Photos for Wyoming Species.

242

7810

1738



4. Species Photo Gallery

Explore photos of Wyoming plants and animals.

OUR APPLICATIONS AND DATA



WOS2

Home

WOS 2

The WOS₂ module provides applications for entering, uploading, and querying WOS data in the new joint, WYNDD/WGFD database. Follow the links in the navigation-area on the left to access these applications.

If you have any concerns, comments, or questions, you can e-mail the maintainers using the '**Email us**'-link which appears at the bottom of the page.

Navigation

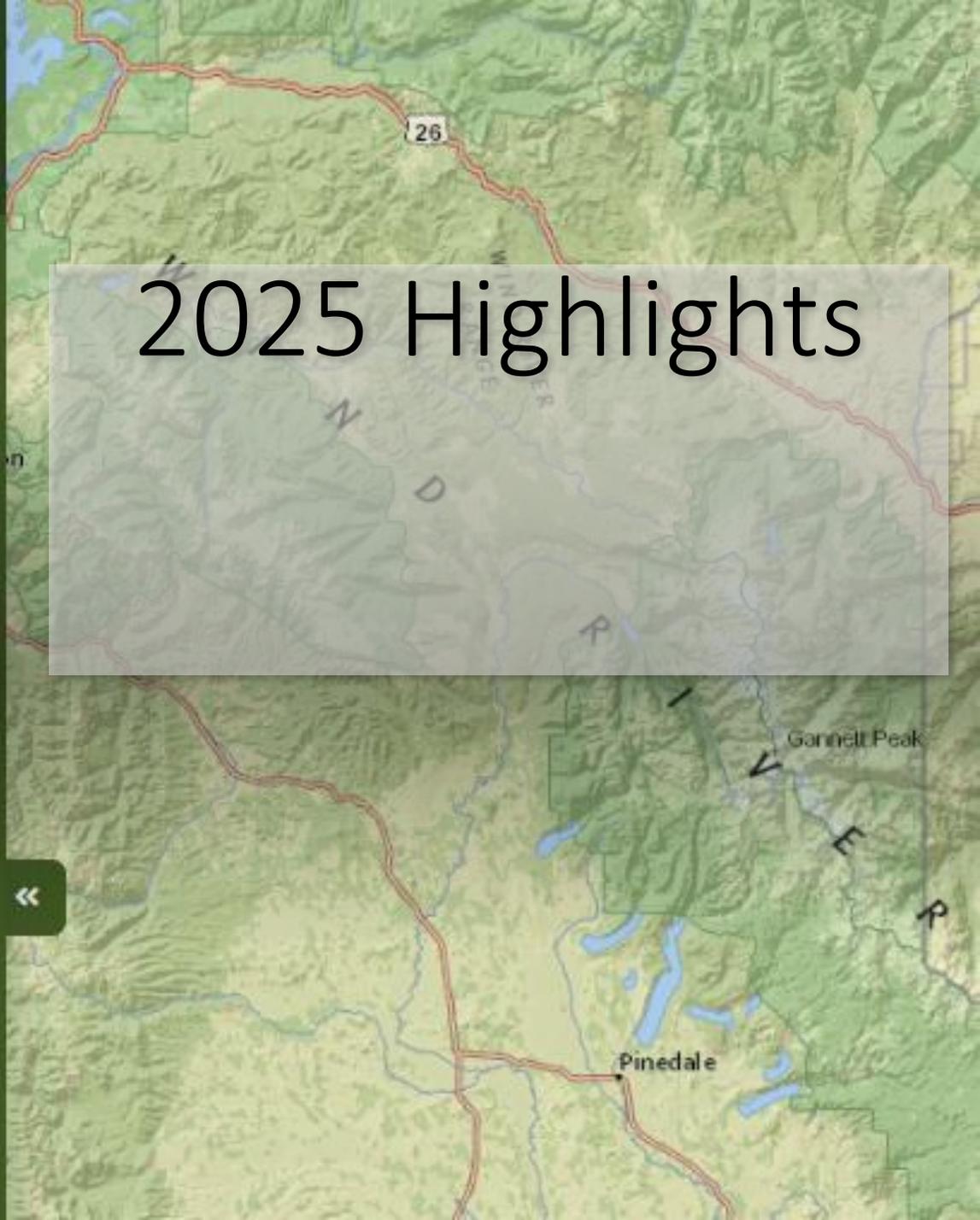
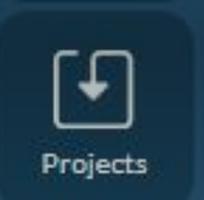
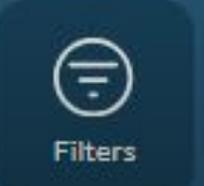
- ▼ WOS 2
 - [My Datasets](#)
 - ▶ [Tutorials and Documentation](#)
 - ▶ [WOS Data Input Form](#)
 - [WOS Query Tool](#)
- ▼ WOS Spreadsheet
 - [Upload Form](#)
 - [Sample Sheet](#)
 - [Template Sheet](#)



12417 species match your filtering criteria

- Sort By: Scientific Name
- Collapse All
- Turn off Selected

- ▶ All Species Matching Filters (Secondary Filters)
- ▶ Invertebrate Animals
- ▶ Lichens
- ▶ Nonvascular Plants
- ▶ Vascular Plants
- ▶ Vertebrate Animals



2025 Highlights

2025 Highlights

Data Ex Usage Stats, as of January 31, 2026

- 835 Active Users
- 67,074 Requests via Data Explorer to-date
- 27,625 Requests in 2025



WYNDD

Wyoming Natural
Diversity Database

Data Explorer Map View



63 species match your filtering criteria

Search by Species...

Sort By: Scientific Name

Collapse All

Turn off Selected

▼ All Species Matching Filters (Area of Interest + Rank + Secondary Filters + Taxonomic)

■ Precise Observations

Precise Observations can't be viewed because too many records match these filters. Narrow the area or add filters to bring the total below 50,000 before turning the layer on. You can still click the download icon to check whether a disabled.

■ Raptor Nest Visits

■ Rocky Mountain Herbarium Specimens

All Rocky Mountain Herbarium Specimens can't be viewed because too many records match these filters. Narrow the area or add filters to bring the total below 50,000 before turning the layer on.

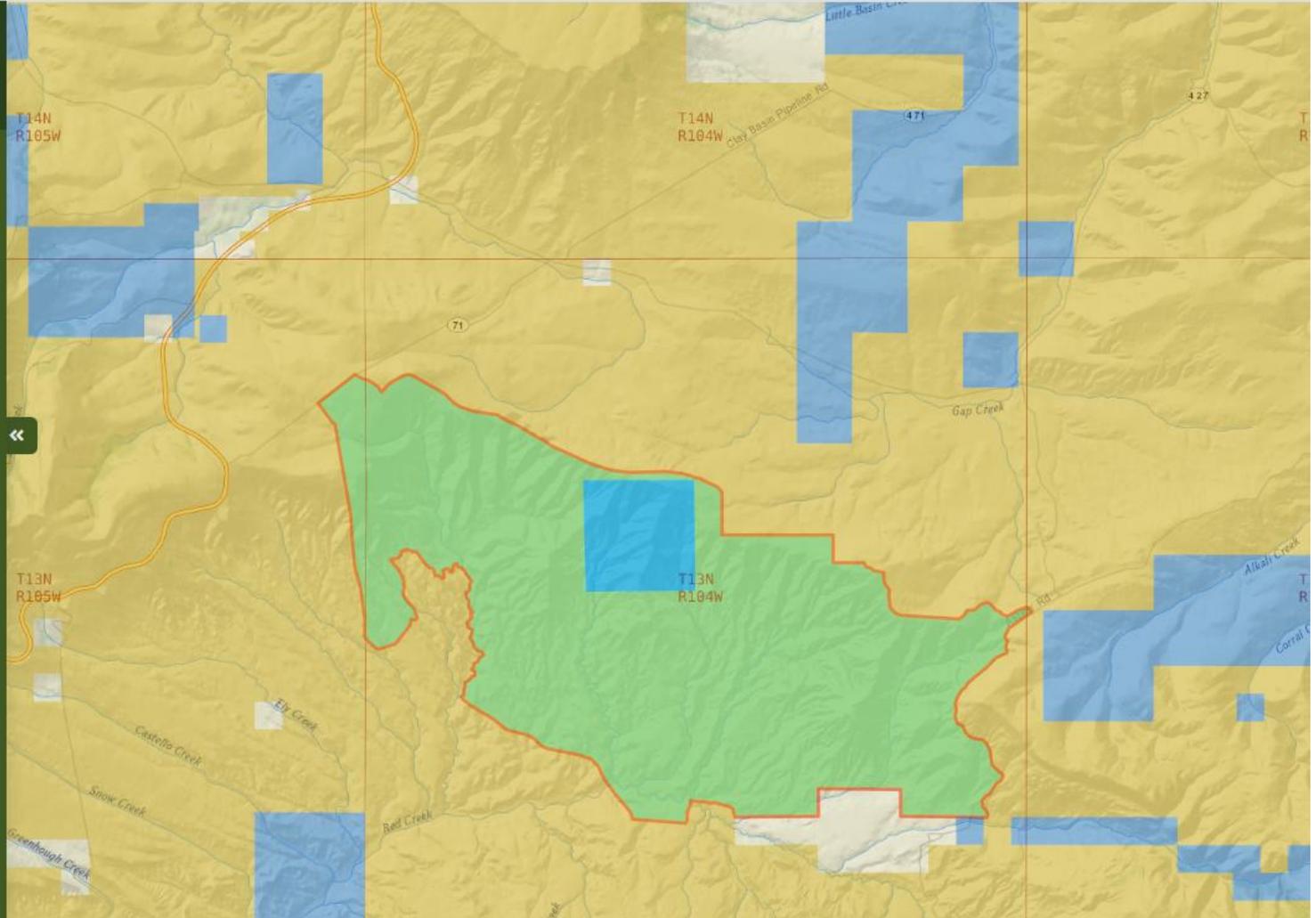
▶ Invertebrate Animals

▶ Lichens

▶ Nonvascular Plants

▶ Vascular Plants

▶ Vertebrate Animals





12418 species match your filtering criteria

✖ Clear Filters

Origin is: And Occurrence is: And Residency Status is:

Taxonomic level is:



Rank & Status

Location

Taxonomic

Secondary

▼ All Agency Special Status

All Agency Special Status

Rank set includes all USFWS Endangered Species Act statuses excluding NW and UR, WFGD Species of Greatest Conservation Need, Wyoming BLM Sensitive Species, USFS Sensitive Species, USFS Species of Local Concern

▶ BLM Wyoming Sensitive Species List

▶ County Declared Pest

▶ County Declared Weed

▶ Heritage Global Rank (G Rank)

▶ Heritage State Rank (S Rank)

▶ USFS Sensitive Species List



All Rocky Mountain Herbarium Specimens can't be viewed because too many records match these filters. Narrow the area or add filters to bring the total below 30,000 before turning the layer on.

▶ Invertebrate Animals

▶ Lichens

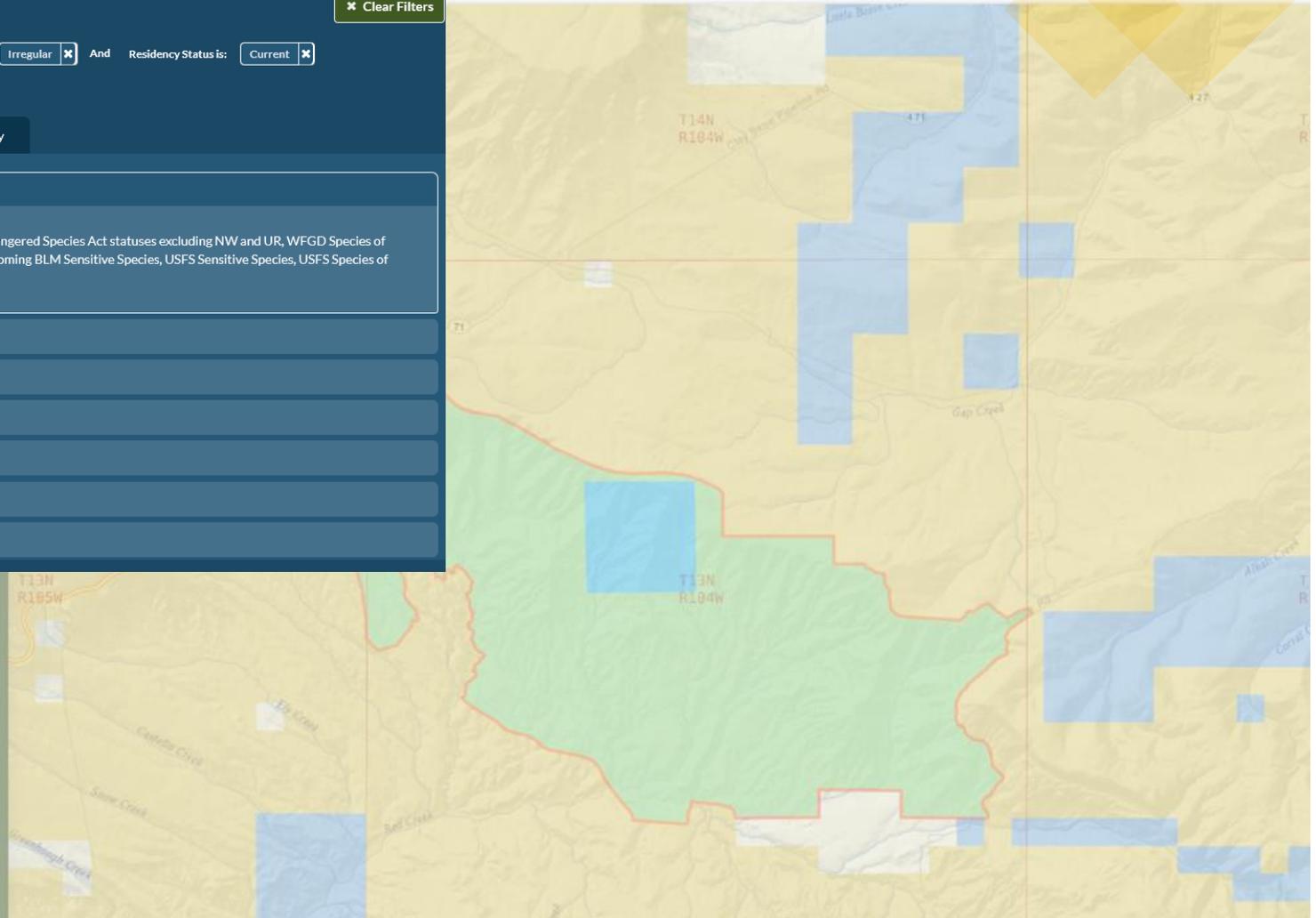
▶ Nonvascular Plants

▶ Vascular Plants

▶ Vertebrate Animals



1





63 species match your filtering criteria

Search by Species...

Sort By: Scientific Name Collapse All Turn off Selected

▼ All Species Matching Filters (Area of Interest + Rank + Secondary Filters + Taxonomic)

■ Precise Observations
Precise Observations can't be viewed because too many records match these filters. Narrow the area or add filters to bring the total below 50,000 before turning the layer on. You can still click the download icon to check whether a disabled.

■ Raptor Nest Visits
■ Rocky Mountain Herbarium Specimens
All Rocky Mountain Herbarium Specimens can't be viewed because too many records match these filters. Narrow the area or add filters to bring the total below 50,000 before turning the layer on.

- ▶ Invertebrate Animals
- ▶ Lichens
- ▶ Nonvascular Plants
- ▶ Vascular Plants
- ▶ Vertebrate Animals

Download All Precise Observations

Last Refresh : January 7th 2026, 6:00 pm

1 Choose an output format for your download

ESRI Shapefile (.shp)

2 Choose the Spatial Filter to Apply for your Download:

- Statewide
- Area of Interest (Buffered to the township level)

3 Download 1436 Precise Observations - Area of Interest

Download Precise Observations as ESRI Shapefile (.shp)

Name	Type
all_precise_observations_prod_prec...	DBF File
all_precise_observations_prod_prec...	PRJ File
all_precise_observations_prod_prec...	SHP File
all_precise_observations_prod_prec...	SHX File
Custom_AOI_Detail.pdf	Adobe Acrobat Document
Custom_AOI_Zoom.pdf	Adobe Acrobat Document
README.txt	Text Document

Projects

Precise Observations can be viewed with filters. Narrow the area or add filters by turning the layer on. You can still turn the layer off.

disabled.

- Raptor Nest Visits
- Rocky Mountain Herbarium

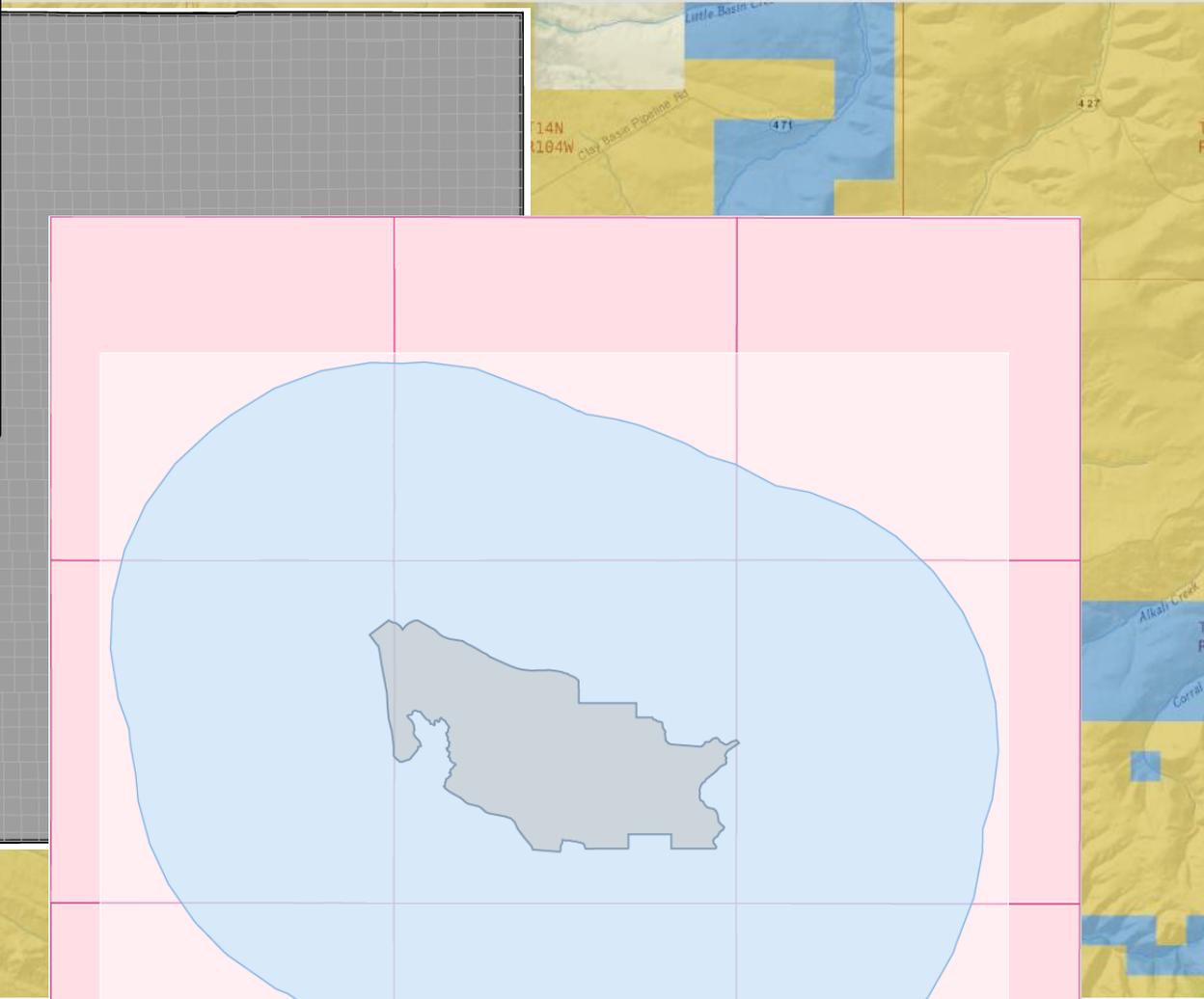
All Rocky Mountain Herbarium records match these filters. Narrow the area below 50,000 before turning the layer on.

- Invertebrate Animals
- Lichens
- Nonvascular Plants
- Vascular Plants
- Vertebrate Animals

Species Layers

Sampling Layers

Other Layers



2025 Highlights

Improved Data Explorer reliability and user experience

WYNDD
Wyoming Natural
Diversity Database

Data Explorer Map View

63 species match your filtering criteria

Search by Species... 🔍

Sort By: Scientific Name Collapse All Turn off Selected

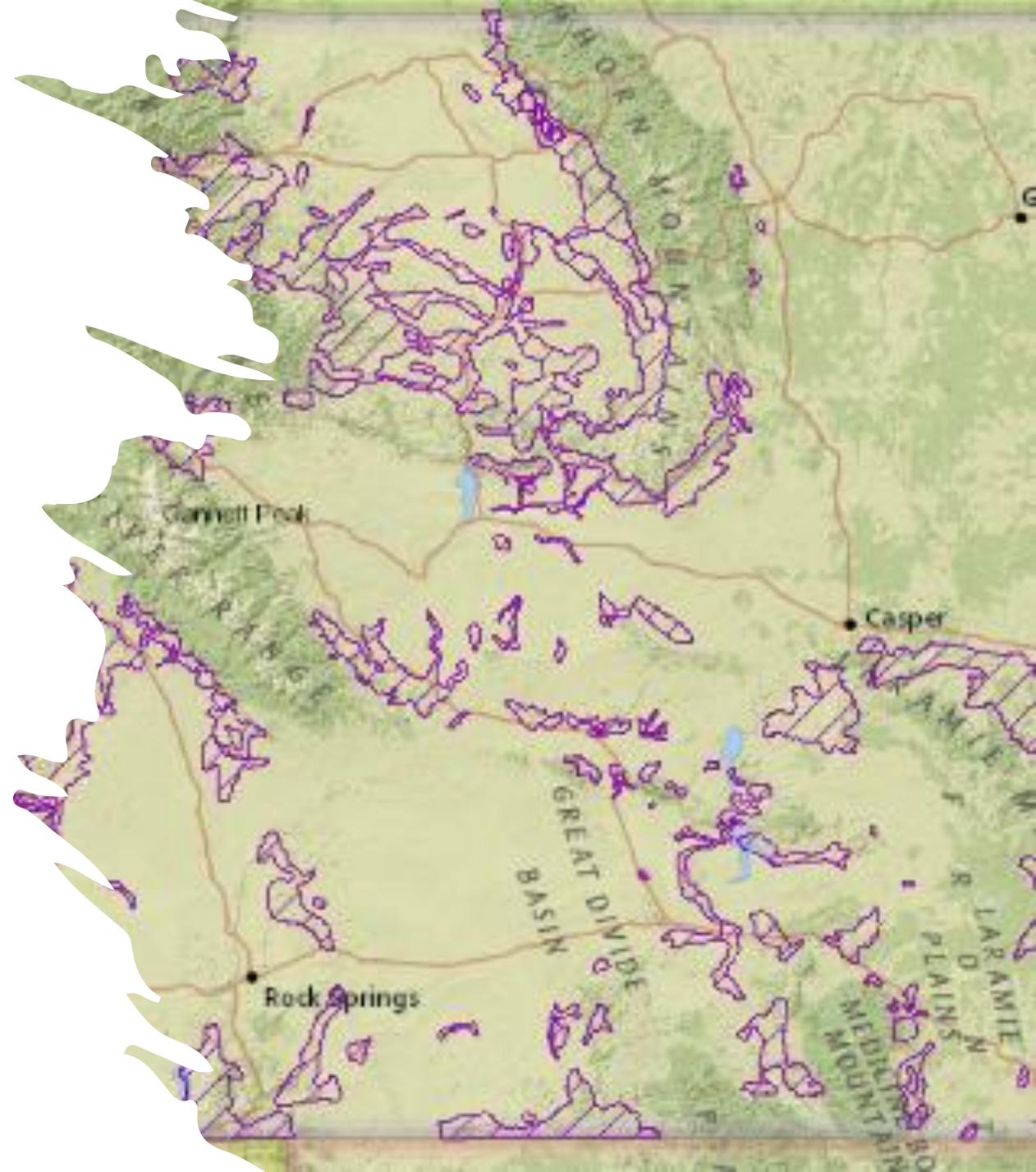
▼ All Species Matching Filters (Area of Interest + Rank + Secondary Filters + Taxonomic) ⚠️

API Errored
Please email us at support@wyndd.org if this persists

✖ All species request timed out. Please try again.

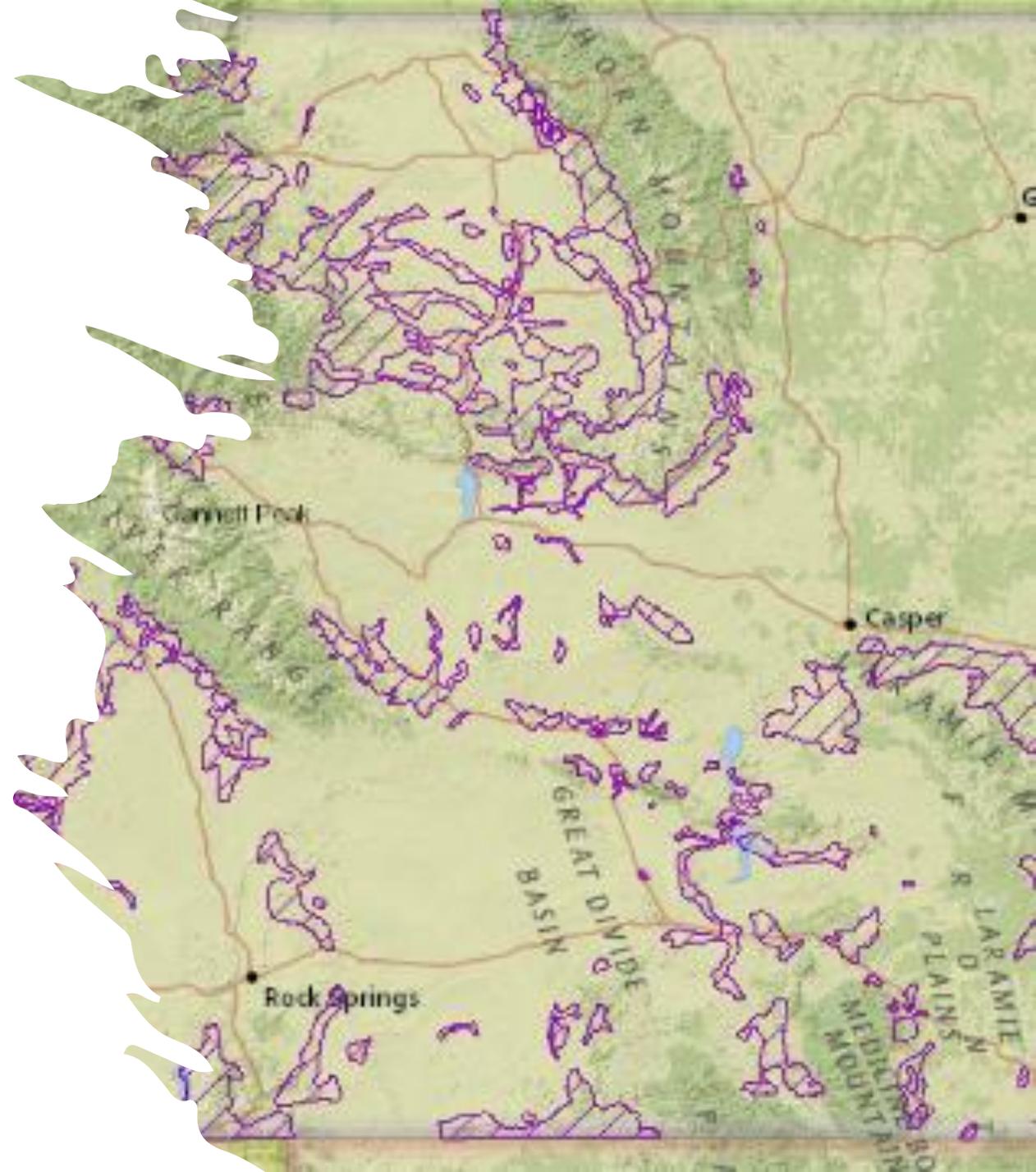
2026 Priorities

- New Data Explorer Features & Functionality



2026 Priorities

- New Data Explorer Features & Functionality
 - Additional reference layers



2026 Priorities

- New Data Explorer Features & Functionality
 - Addition of spatial and attribute-based queries
 - Date range
 - Observer
 - Others...

2026 Priorities

- Incidental observations collection survey

Collection Info

of Data Collection *

Wednesday, February 4, 2026

Organization: Wyoming Natural Diversity Database

Organization Confirmation *

- Organization above is correct
- Enter different organization
- Collecting data as a citizen

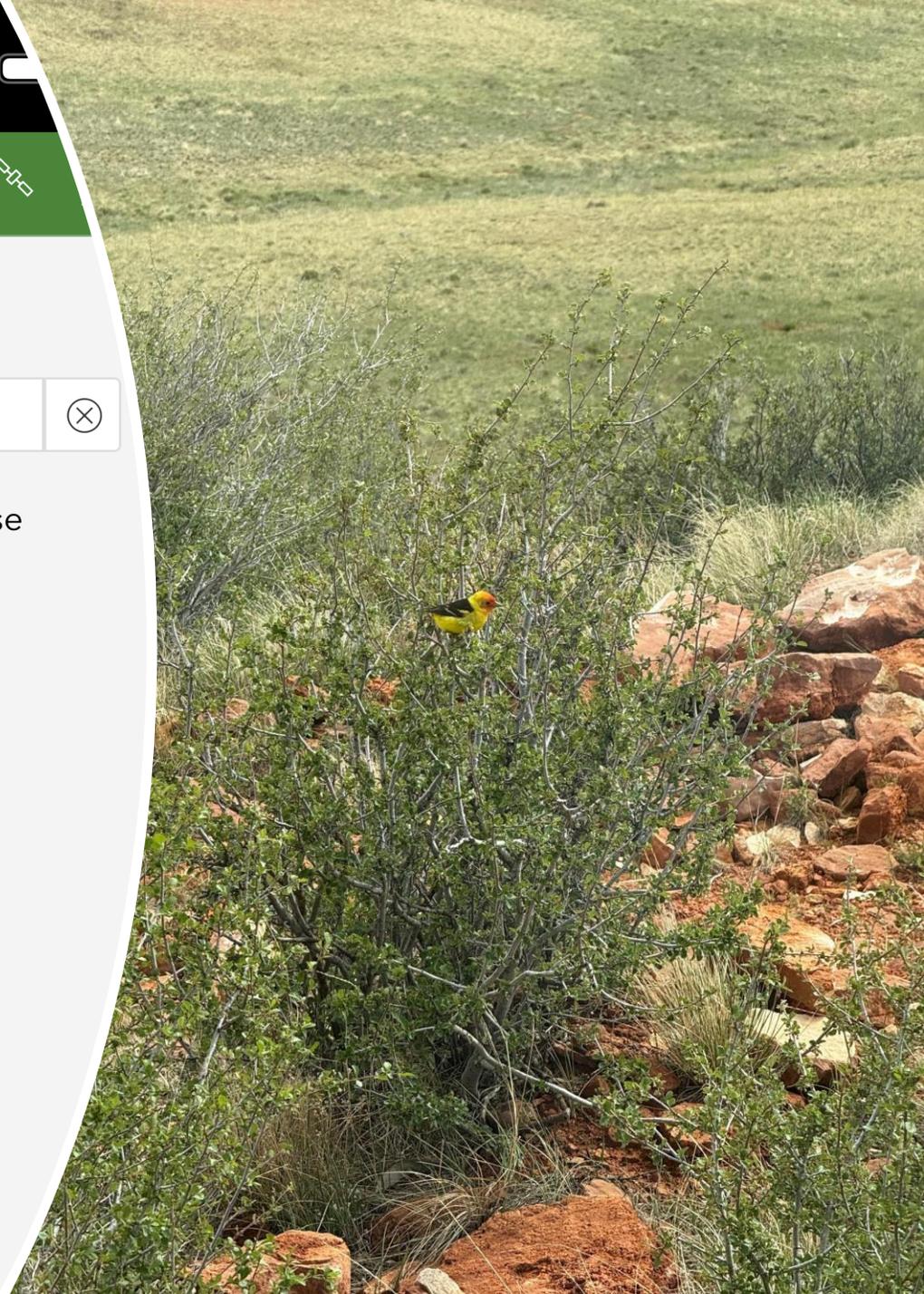
Organization Detail Level *

- Minimum Required Info
- Standard Observation Info
- Detailed Documentation

Data Collection Summary

Email: fisher@uwyo.edu

Full Name: Ian Abernethy



2026 Priorities

- Automated ingestion of Chapter 33 datasets

2026 Priorities

- Internal Tools for Observation Review & Range Map Editing
- Dataset Backlog
 - iNaturalist and other data sources

Questions or Feedback...?

Join us for
Data Explorer demo at
1 pm today!

Send questions or feedback anytime to fisher@uwyo.edu