

WISDOM Tutorial

Wyoming Interagency Spatial Database & Online Management (WISDOM) System

To answer the following questions, navigate to the WISDOM Application (<http://wisdom.wygisc.org>) and click on the link to start the application.

The WISDOM Help document is available via the application, refer to it for questions.

This tutorial is designed to walk through several steps of the WISDOM Application to help familiarize you with some of the basic features. This is a detailed application that returns a lot of information, but with a few basic principles down, you should be able to navigate the application efficiently.

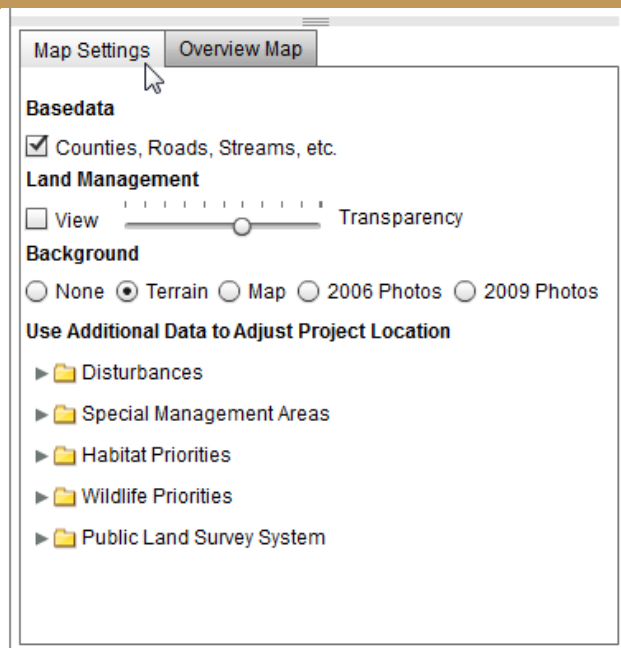
The steps below mimic what you might do on first exploring the application, and then choosing your project area and generating a report.

1. Explore your area of interest

- a. List three layers under the Map Settings that you can use to find your area of interest and explore the data.
- b. Zoom to Township 16N, Range 90W.
- c. What are the two special management areas and what species use this area for crucial range?

Notes

At the bottom of the Table of Contents on the left side of the application, turn on and off and expand to explore some of the general layers available in this initial map view



Notes

Use the Locate Area of Interest> Township or Section Tool to zoom to this township

Define Assessment Area Assessment Report

Locate Area of Interest

Township or Section USGS 7.5 Minute Quadrangle Watershed

Township N ▼

Range W ▼ Zoom to Township

Section Zoom to Section

Clear Graph

Define Project Footprint

Drawing Tools: Run Analysis

Upload Shapefile Remove Current

Use Current Display Graphic

Navigate to Map Settings>Use Additional Data to Adjust Project Location

Expand the Special Management Areas>Special Management Areas. Use the same steps to go to Wildlife Priorities>Big Game Crucial Ranges

Map Settings Overview Map

Basedata

Counties, Roads, Streams, etc.

Land Management

View Transparency



Background

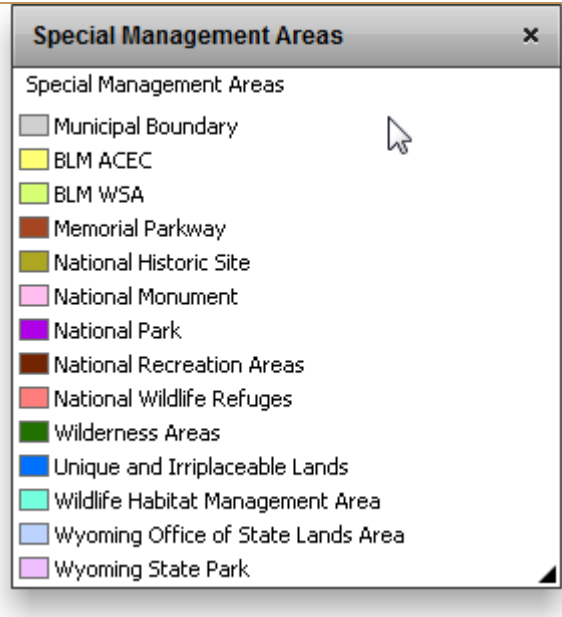
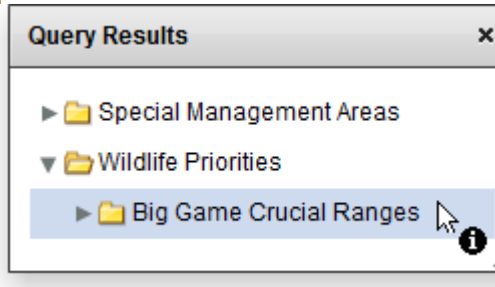
None Terrain Map 2006 Photos 2009 Photos

Use Additional Data to Adjust Project Location

- ▶ Disturbances
- ▼ Special Management Areas
 - Easements
 - Special Management Areas
 - No Surface Occupancy Areas - BLM
- ▶ Habitat Priorities
- ▼ Wildlife Priorities
 - Big Game Crucial Ranges
 - Sage-grouse Core Areas Ver3
 - Sage-grouse Connectivity Areas
- ▶ Public Land Survey System

Now, you have two options to interpret the data:

- 1) click on the  legend button to open the legend
- 2) or click on the  identify tool and click on the layer on the map, then expand the results. This tool only works on visible layers.

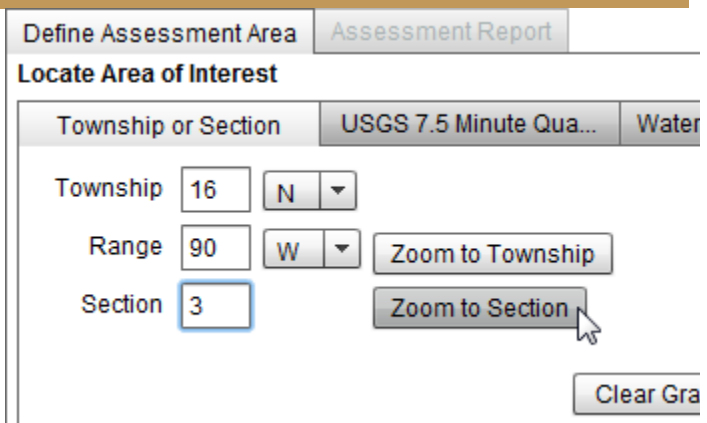


2. Define your Project Area

- a. In the township step from above, let's get slightly more detailed.
- b. From the steps above, add section 3 and zoom to it.
- c. Now, define your project footprint. For the purposes of this exercise, draw a polygon somewhere in that highlighted section

Notes

Add the section to the T/R/S as shown. click Zoom to Section



The screenshot shows the 'Define Assessment Area' tool interface. It has two tabs: 'Define Assessment Area' (active) and 'Assessment Report'. Under the 'Define Assessment Area' tab, there is a section titled 'Locate Area of Interest'. It includes a dropdown menu for 'Township or Section' set to 'USGS 7.5 Minute Qua...' and a 'Water' button. Below this, there are input fields for 'Township' (16), 'Range' (90), and 'Section' (3). Each input field has a directional dropdown (N, W, and a blank one respectively). To the right of the input fields are buttons for 'Zoom to Township' and 'Zoom to Section'. A 'Clear Gra' button is located at the bottom right.

Under Define Project Footprint, click the Draw Polygon tool.

Note: There are several ways to define your area of interest, aside from drawing on the map. Explore these other two options:

- Upload Shapefile
- Use Current Display Graphic, which will take the graphic from the township, section, watershed, or quad you have zoomed to using the tools above.

Define Project Footprint



Click to draw your area of interest on the map.

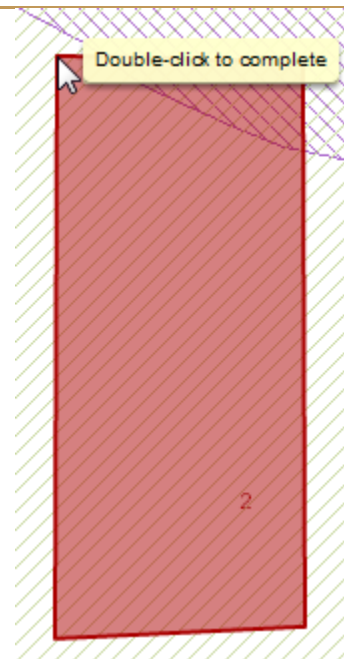
Note: each single click will place a vertex. Double click to complete your polygon.

Once you finish drawing, click Run Analysis.

Define Project Footprint



To make the project area more visible, all layers except a topographic background are turned off.



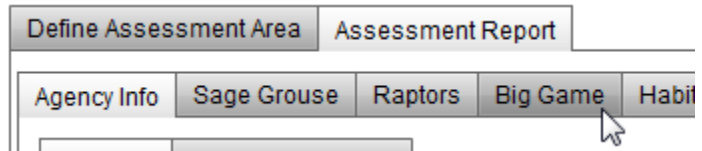
3. View the Report Tabs

- Explore the tabs in the report.
- What big game species uses your study area for crucial range?
- Are there any federally listed species in your project area?

Notes

Each tab runs a query and returns results for your area of interest.

Some tabs may take longer to return results, as they are querying large databases. You will see a spinning clock while the query is running.



4. Change Background layers

- Turn off the background.
- Turn on the land ownership and change the transparency. What is the dominant land owner for your project area?
- Turn on the townships, sections and quarter quads

Notes

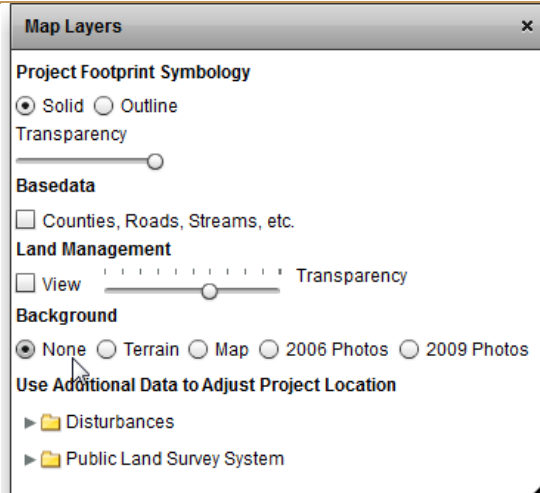
On the map, click on Map Layers.



In the Map Layers dialog box, turn the background off by selecting **None** for the background.

Turn land management on using the check box, and use the slider bar to change the layer transparency.

Expand the Public Land Survey System folder, and use the check boxes to turn on the PLSS layers.

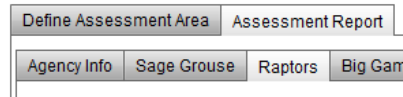


5. Create a Topic Report

- a. What raptor nests and observations occur within or near the project area boundary?
- b. Create a topic report for this tab

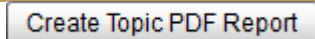
Notes

Click on the Raptors tab

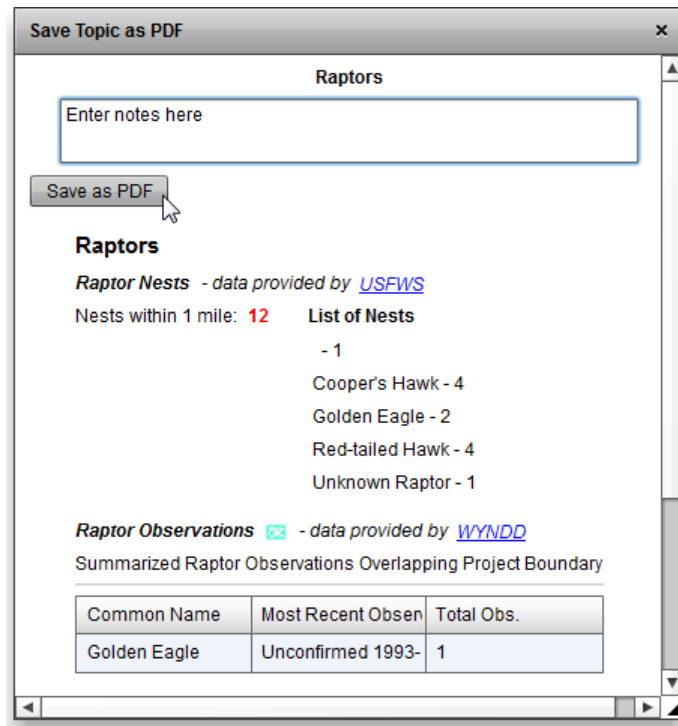


Click the check box to display the 1 mile buffer for raptor nests, and for observations

Click on the Create Topic PDF Report on the top right corner of the application



Enter notes, such as "background data: Land Ownership and PLSS" and whatever other pertinent information will guide your use of this topic report.

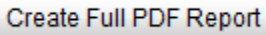



The report includes a map with any of the topic layers you have checked on (made visible). The map is dynamic and you can drag to pan or use your mouse wheel to zoom in or out.

Save to your local drive, then navigate to location to view report

In order to keep the map from becoming cluttered with too much information, when you switch to a different topic (e.g. from raptors to big game), the previous topic layers will be turned off.

6. Create a Full Report

- c. Click on the  button on the top left of the application
- d. Scroll through the document and view contents. Who is the Baggs District Wildlife Biologist?
Save the report with notes to your local drive.
- e. Click the 

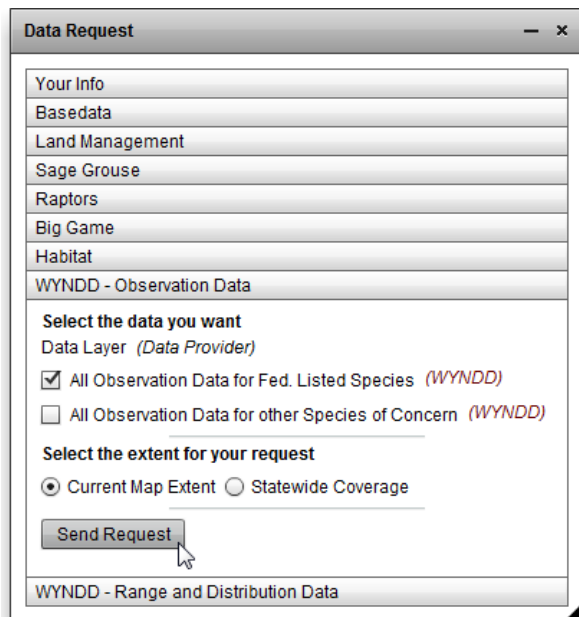
7. Request Data

- a. Click on the  button in the top left of the application

Notes

Fill in your information, including industry type and affiliation.

Requests are sent from each tab directly to the data provider, except for freely available data, for which you are directed to the metadata record in the Wyoming GeoLibrary to download the data directly.



Data Request

Your Info

Basedata

Land Management

Sage Grouse

Raptors

Big Game

Habitat

WYNDD - Observation Data

Select the data you want

Data Layer (Data Provider)

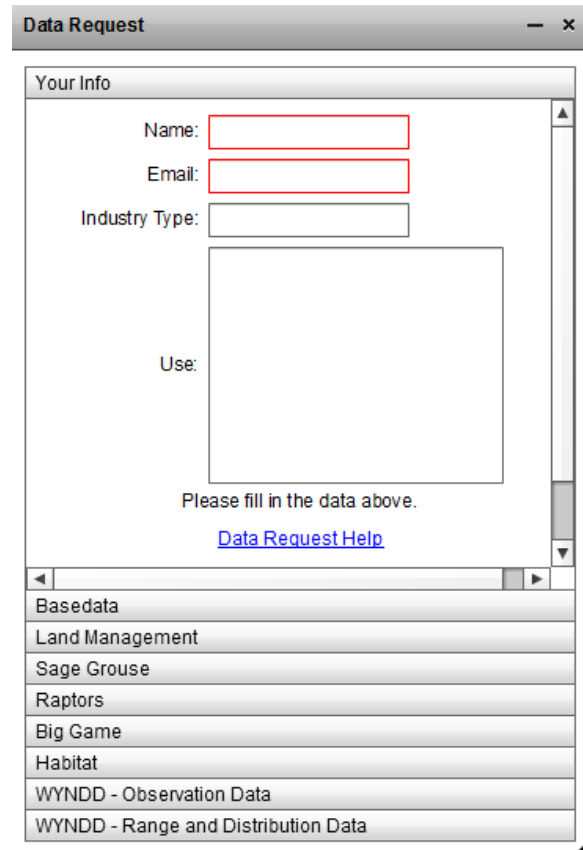
All Observation Data for Fed. Listed Species (WYNDD)

All Observation Data for other Species of Concern (WYNDD)

Select the extent for your request

Current Map Extent Statewide Coverage

WYNDD - Range and Distribution Data



Data Request

Your Info

Name:

Email:

Industry Type:

Use:

Please fill in the data above.

[Data Request Help](#)

Basedata

Land Management

Sage Grouse

Raptors

Big Game

Habitat

WYNDD - Observation Data

WYNDD - Range and Distribution Data

WISDOM Application Answer key

1. *This could be several things, including Basedata, land management, background, and any of the layers in the additional data folders*
2. *For special Management Areas, there is a WHMA, and a BLM ACEC. For species crucial range, it is Elk crucial winter/yearlong range over the entire township, and mule deer crucial winter/yearling range in the northwest and northeast corners. Other special management areas are the NSO Areas.*
3. *Elk, sage grouse. These will vary depending on project area drawn.*
4. *BLM*
5. *May vary, nests are around 12 or 13, golden eagle, etc.*
6. *Tony Mong*