

Data Dashboard Scavenger Hunt:

Student Handout (Bear)

INTRODUCTION

In this activity you and your classmates will explore the Snapshot Wisconsin Data Dashboard and use it to study the detection rates and activity of different Wisconsin animals.

Data Dashboard: datadashboard.snapshotwisconsin.org

<u>You have been assigned the black bear</u> as your species to study. On the left-hand side of the website you will see an area to "Select species of interest". Select "Bear" under the species list to begin your investigation!

INVESTIGATION

1. In the blue box at the center top of the page, the number of "Statewide bear detections" for the selected species (bear) is reported. Use the slide tool in the lower left corner of the page to "Select date range of data".

a.	How many statewide detections of bear are there from January 2018 to December 2023?
b.	How many statewide detections of bear are there from January 2018 to December 2018?
c.	How many statewide detections of bear are there from January 2023 to December 2023?

- 2. In the center left of the page you will see a "Presence Map" of Wisconsin that displays the percentage of cameras which detected bear by county. Use the key in the upper right corner of the map to determine the different percentages that bear were detected in each county. You can also hover over each county on the map to see the county name and exact percentage.
 - a. Using the blank map handout provided, shade in the counties where bears are detected on 80% or more of cameras between January 2018 and December 2023.

For the remainder of the questions, keep the date range at January 2018 to December 2023.

3. On the left-hand side of the page, under the species list, you will see an option to "Select map mode". Select "Ecological Landscapes" to explore the different ecological landscapes of Wisconsin where bears are detected. Hover over each landscape on the map to see the names and specific percentages.

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a.	What ecological landscapes detect bears on over 60% of cameras? Check all						
	that apply.						
		Superior Coastal Plain		Central Lake Michigan Coastal			
		Northwest Lowlands		Central Sand Hills			
		Northwest Sands		Central Sand Plains			
		Forest Transition		Western Coulees and Ridges			
		North Central Forest		Western Prairie			
		Northern Highland		Southwest Savanna			
		Northeast Sands		Southeast Glacial Plains			
		Northern Lake Michigan Coastal		Southern Lake Michigan Coastal			
b.	What ecolo	gical landscapes detect bears on les	s th	an 20% of cameras? Check			
	all that apply.						
		Superior Coastal Plain		Central Lake Michigan Coastal			
		Northwest Lowlands		Central Sand Hills			
		Northwest Sands		Central Sand Plains			
		Forest Transition		Western Coulees and Ridges			
		North Central Forest		Western Prairie			
		Northern Highland		Southwest Savanna			
		Northeast Sands		Southeast Glacial Plains			
		Northern Lake Michigan Coastal		Southern Lake Michigan Coastal			
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	c.	What are possible reasons that bears are detected in some ecological landscapes more than others? Explain your reasoning.
4.		center right of the page you will a see line graph that displays "Animal Activity". the graph are two blue buttons that allows you to view activity "by Hour" and "by".
	a.	What 3 months are bears detected most often?
	b.	What 3 months are bears detected least often?
	c.	Why do some months have more bear detections than others? Explain your reasoning.
	d.	Within a 24-hour period, which two hours of the day show a <i>peak</i> in bear activity? i. Based on their peak hours of activity, do you think bears are diurnal, crepuscular, or nocturnal?
5.	compa	avigate to the "Detection Rates" tab to view a bar graph of yearly detections, aring bears to other animals. You can hover over each bar on the graph to see ed statistics.
	a.	Are bears detected at a higher or lower rate than coyote?
	b.	Do you think bear and coyote population levels impact one another? Why or why not?