

NATURE MAPPING JACKSON HOLE

www.naturemappingjh.org

Nature Mapping Jackson Hole

A project of the **Meg and Bert Raynes** Wildlife Fund JACKSON HOLE and the **Jackson Hole Wildlife** Foundation





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Purpose

- Keep common wildlife species common.
- Use citizen science to increase general knowledge and appreciation of Teton County wildlife.
- Influence the behavior of citizens and land managers in favor of sustaining native wildlife.





Desired Outcomes and Products

- Engage community members to contribute to a long-term dataset documenting the presence of wildlife in Teton County
- Provide information for sciencebased land management decisions
- Compile and summarize accurate and useful data to help public and private managers make research-based decisions



Nature Mapping Training Objectives

At the end of this training you will:

- Understand the importance of accurate observations
- Know how to fill out the paper NMJH Observation Form
- Know how to determine the location of your observations (UTM Coordinates)
- Know how to access and navigate the NMJH website including: login, updating your account, enter observations into the database and edit observations
- Understand the importance of following protocols
- Learn about current projects and future trainings available to trained Nature Mapping Citizen Scientists (you!)

Making Observations The Four Fundamentals

Each observation must include:

- What species you saw
- How many you saw
- Where you saw them
- When you saw them



The Importance of Accurate Data

Follow the Nature Mappers Creed: WHEN IN DOUBT, LEAVE IT OUT

The Data Process:

- Trained Nature Mappers (you) enter their data online (preferably within a week of collecting it)
- The data is examined by trained biologists (hopefully within a month)
- If there are questions, the biologist will contact the citizen scientist and ask for clarification or further information
- Any necessary edits are made to the data
- The data is verified



Recording Your Observations

Nature Mapping/ Meg Bert Raynes Wildlife Fund Observation Form

Date	Time							Habitat	UTM	(NAD83)	
m/d/v)	(hr/mn)	Species Name	Sex	Age	Qty	Activity	Mortality	Type	East(X)	North(Y)	Comments
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x	ť	Age	h			Activity	-			Habitat	Mortality
Unknown		Unknown/ Mixed	Undetermined Walking					Unknown Marab-Swamp wetlands			Cause Undetermined
Eemale Adult		Adult	Reproduction (Broadlag) Running					Conifer Forest Aquatic			Fanca
Hole Keadle		Lerden Bestinn					Deciduous Forest Created Astrochural Lands			Accidents	
Male		reaning	Loan	ing res	ung	riying		Deciduous F	UIEN	Cropiano/ Agricultural Lands	Accidents
Male & Female (M/F)		Juvenlie	Feed	ang		Swimming		Mountain-Fo	oothillis Shrub-	Barren Special Features	Power line
		Larvae/ Tadpole	Sign	(track,	scat, et	c.) Active Bird F	eeder	Shr	ub Steppe	Glacier	Accident - vehicle
		Eggs	Terri	tory Bel	avior	Nesting		Riparian Shr	ub - Shrub Steppe	Disturbed Areas	
			Standing					Grasslands		residential, landscaping, etc.)
	A Note (UTMa: AI UTMs	are In	NAD 83	UTM 2	one 12. Acceptable U	TMs In Teton C	ounty are: Eas	ting (X): 492803 to	581330 and Northing (Y): 478470	6 to 4948896

Filling Out Observation Form

 Date (mo/day/yr)
 05/01/10

 Time (hr:min)
 1430 - 24 hr. clock

Species Name

Quantity – the number of individuals seen based on the characteristics listed below

Sex, Age, Activity, Mortality, Habitat

Use shorthand that is in bold and listed at the bottom of the form.

Observation Form

How many lines of data would the observation below require?



Determining a UTM Location

Nature Mapping uses a grid system to locate observations called UTMs.

- The Universal Transverse Mercator (UTMs) Geographic Coordinate System covers the Earth with a one meter grid system
- Reminder: a grid system expresses coordinates in the x,y methodology
- This grid system orients from the equator for north and south
- For east and west, the Earth's circumference is split into 60 zones along the equator
- Each zone is six degrees wide at the equator



Determining Position within the UTMs System

A position on the Earth is referenced by the UTM zone, and a coordinate pair (X, Y) called the "easting" and "northing".

What zone do we live in?

The easting (x) is the projected distance (in meters) of the position from the central meridian of the UTM zone.

The northing (y) is the projected distance (in meters) of the point from the equator

What then do we mean by the "central meridian" of the UTM zone?



UTM Values Within a Zone

Easting Values (x)

•The center point of each zone is arbitrarily designated as 500,000 m •From this center point, locations to the east of the zone's center meridian have values >500,000 and points to the west have values <500,000

Northing Values (y)

•Northing values represent the number of meters north of the equator

What does the UTM value of 500,700 E tell you about your location within a zone relative to the central meridian?



USGS topographic map with UTM grid



Calculate UTM's for Points 1,2 and 3

- Use your paper map to calculate the UTM coordinates for points 1, 2 and 3
- UTM coordinates for point 1 555,500 E and 4,825,500 N
- UTM coordinates for point 2 555,186 E and 4,826,242 N
- UTM coordinates for point 3 552,252 E and 4,825,849 N

"Observation #1"

Date: August 25, 2010, Time: 4:58 PM Observation #1 on previous map.



Data for Observation #1

Observer:								Project:			
Date	Time	Species Name	Sex	Age	Qtv	Activity	Mortality	Habitat	UTM (NAD83)		Commenta
(m/d/v)	(hr/mn)	operation		~8~		, and they	mortanty	Type	East(X)	North(Y)	· · · · · · · · · · · · · · · · · · ·
8/25/10	1658	Pronghorn	Μ	Α	2	L		Grass	555500	4825500	
			Ī,								



Fill Out The Observation Form For "Observation #2"

Date: April 30, 2010, Time: 8:17 AM Observation #2 on previous map.



Fill Out The Observation Form For "Observation #3"

Date: August 16, 2010, Time: 11:35 AM Observation #3 on previous map.



Entering the Data

THIS IS A VERY IMPORTANT STEP IN THE PROCESS! Please try to enter your observations within a week of collecting the data

Welcome: Megan Smith Main Site											
Main Site Entry Form	Add New Obs	Add New Observation									
My Acount Conta t Us Log O t	ID: Observer:	Entered: 03/23/11 10:44 Status: New	•								
ÈŚ	Project: Species: Sex:	Casual Observations	•								
	Activity: Habitat:	Undetermined Vigot Control Vi	•								
	UTM X: Comments:	Y: Zone: 12 Use Last UTM Use Defaults	^								
			Ŧ								
		Save Close									

Once you've entered an observation, click on it and note that the observation box reopens so you can edit the observation. Until it's verified...

Using the Teton County Map Server to Find UTM Coordinates

Open the Teton County MapServer at: http://www2.tetonwyo.org/mapserver/map.html Find your home UTMs using the Mapserver



Sign in Using Your Username

Sign in to the NM website using your username (your complete email account) and the password

Update your account information:

- Click on the drop down menu labeled "Main Site" in the upper right corner.
- Click on "My Account"
- Fill out the User Info section and click on "**Update**".
- Next, click on the "Change Password" tab.
- Change your password to something personal and click on "Update Password".
- Look through **Defaults** tab
- Return to the Main Site menu and click on "log Out".



User Information		×
User Info Change Password	d Set Defaults Site Mode	
First Name:		
Last Name:		
Address:		
City:		
State:		
Phone:		
Cell:		
Email:		
UTM X:		
	Update	
* Your email	will be used as your login username	

Projects

<u>EVERYDAY DATA</u> Casual Observations Project Backyard Roadkill

SYSTEMATIC FOCUSED PROJECTS Gros Ventre Project Moose Day – 124 Moose in 2011. *Tentatively* February 25, 2012 Snake River Float (dates still available) Osprey Days (May 7 and July 9) Red-Tailed Hawk Nesting Surveys Wildlife Expeditions Ride-Alongs – June - September

PARTNER PROJECTS Pika Project rkgocke.com Wolverine Project

Resources Available to You

Website - This is a work in progress so please check back often to see what has been added! Projects, Trainings, Events, Observations, Background Information...it's all there so please check it out <u>http://www.naturemappingjh.org</u>

Trainings – Offered on an on-going basis

GPS Units – Nature Mapping has several GPS units available for check-out at the Visitor's Center on Cache. Feel free to check these out and make some observations!



THANK YOU FOR BECOMING TRAINED NATURE MAPPERS!



WELCOME TO NATURE MAPPING!

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www.naturemappingjh.org