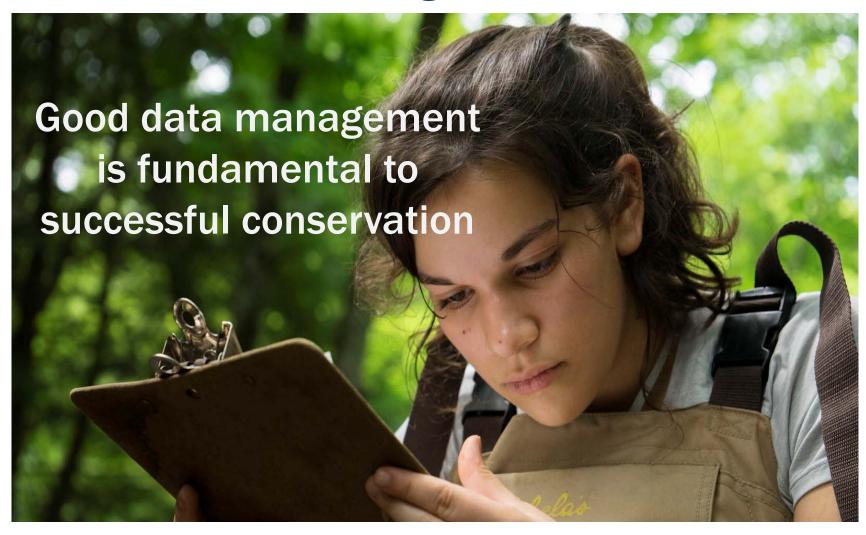




Best Practices for Data Collection & Management





Benefits to Proper Data Collection & Management

- Ensures data are accurate, complete, and reliable
- Minimizes the risk of data loss
- Facilitates data sharing & collaboration
- Increases the impact and visibility of work as other can build off it





So What Should I Record?

- What is the end <u>objective(s)</u> of your project?
- What <u>analyses</u> or what do you need to assess to reach your objective?
- Ask yourself, "Would a colleague make sense of the data without talking to me?"





So What Should I Record?

Always record:

- > Surveyors' names
- Date & time
- > Site name
- > Location: town, state, lat./long., GPS location
- > Weather: sky, wind, temp., humidity, lunar cycle, etc.

Site name			Plant descriptions (larval host plants, available nectar and types)						
Date Time Weather: %cloud cover wind			Personne						
			wind	nd humidity		temp		Other	notes:
	Species	ID#	Sex	Location description	Time	GPS	Photos?	Collector	Notes
		+							



So What Should I Record?

Other data to consider:

- Measurements or info specific to study focus
- Natural environmental variables:
 - Elevation
- Physical habitat characteristics

 - Vegetation
 Land cover type/habitat type
 - Geography
- Anthropogenic-produced variables:
 - Land use
- Pollution: chemical, debris, light, noise
- Fragmentation

Data often have a longer lifespan than the project they were created for.



Importance of Metadata

- Ask yourself, "Would a colleague make sense of the data without talking to me?"
- Metadata: a set of data that describes and gives information about other data.
 - Personnel involved with contact info
 - Details on site locations
 - Data collection methods, such as instrumentation, collection instructions
 - Description of environmental conditions during collection
 - Description of variables and units
 - Definitions of acronyms or site names
 - Reasons for missing values



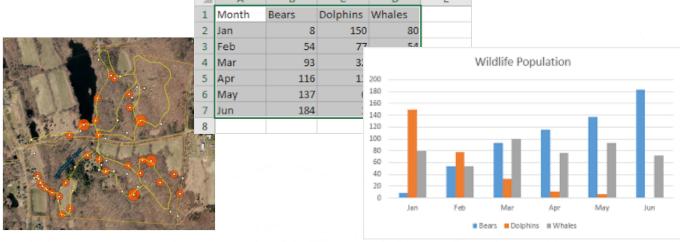
Okay, I Know What Data to Record... What





I've Collected My Data... Now What?

- > Analyses
 - Graphs
 - Maps



- > Storage for future use
 - Recommended store data in 3 different ways: original, local digital copy, remote digital copy

> Sharing







EpiCollect



