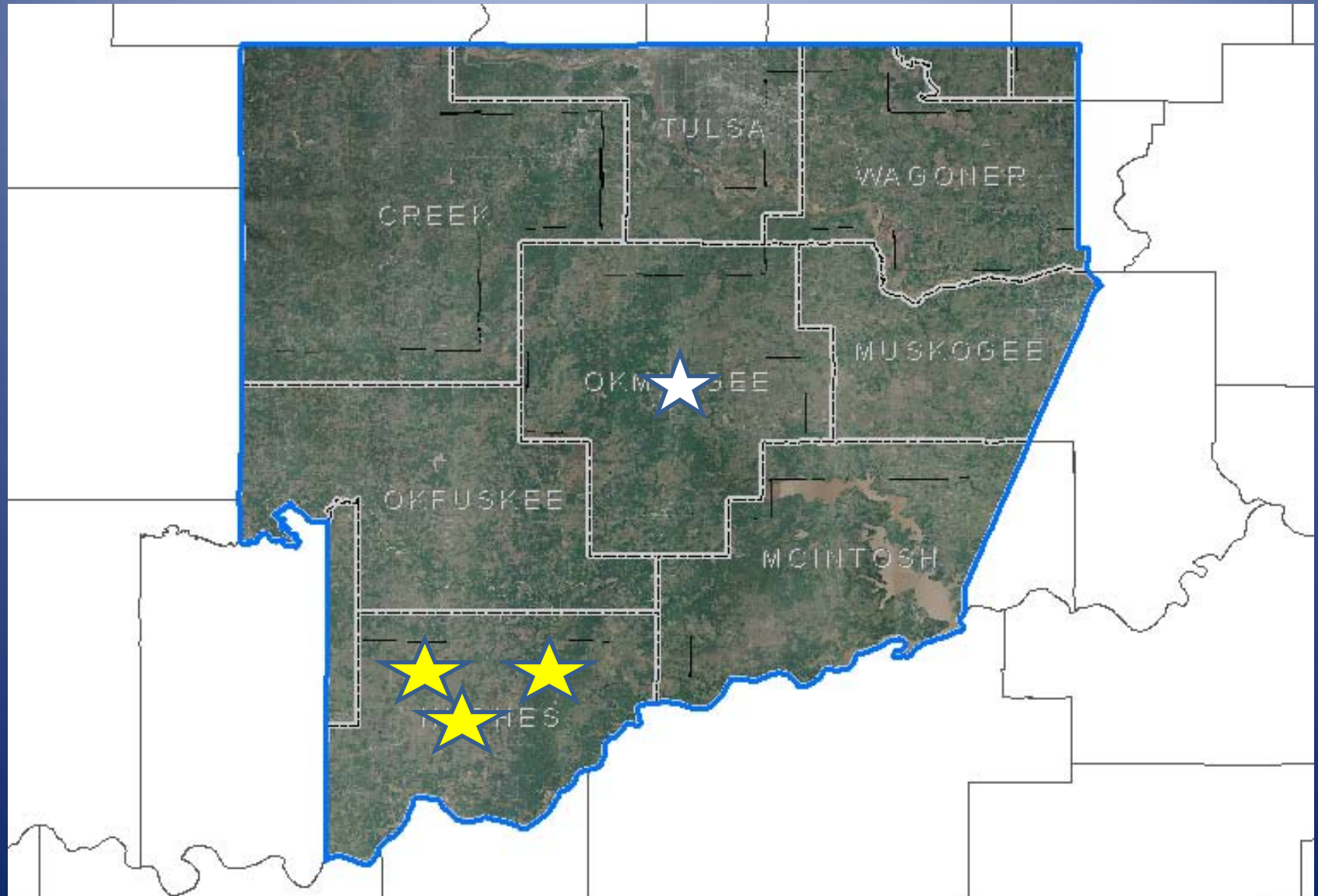


Data Management & Resources



Frank Harjo
Muscogee (Creek) Nation
May 5, 2011

Muscogee (Creek) Nation



Overview of Database

- Excel is not a database program; spreadsheet
- Microsoft Access is a relational database management system for desktop users
- Enterprise relational database management systems include Oracle, SQL, IBM Informix, etc
- Databases can store other information including pictures, maps, and reports

Overview of Database

- Determine Needs and Your Infrastructure
 - IT Staff, Network, Internet Connection
- Database and platform that fits your tribe
 - Explore Exchange Network Partners
- Incorporate all data into your database
 - Sensitive (tribally funded) vs. grant data
- Using templates can help the process of building your database

Home Insert Page Layout Formulas Data Review View Acrobat

Paste Font Alignment Number Styles Cells Editing

Clipboard Font Alignment Number Styles Cells Editing

A4

Office of Water, Water Quality Exchange (WQX), Version 2.0

Category (Purple: version 2.0 additions Green: changed in version 2.0)	Sub Category	Sort Within Category	Data Element XML	WQX Definition	Optionality	Data Type	Business Rule or Additional D
ORGANIZATION	ORG Description	01.00.00 Header	OrganizationDescription	Header The particular word(s) regularly connected with a unique framework of authority within which a person or persons act, or are designated to act.	Mandatory 1 instance of OrganizationDescription for Organization		
	ORG Description	01.00.01	OrganizationIdentifier	A designator used to uniquely identify a unique business establishment within a context.	Mandatory	string max 30	Primary key for everything, unique on supplied by EPA upon application of t
	ORG Description	01.00.02	OrganizationFormalName	The legal designator (i.e. formal name) of an organization.	Mandatory	string max 120	Organization Name according to Trad
	ORG Description	01.00.03	OrganizationDescriptionText	Information that further describes an organization.	Optional	string max 500	
	ORG Description	01.00.04	TribalCode	The code that represents the American Indian tribe or Alaskan Native entity.	Optional	From domain values string max 3	
	ORG Electronic Address	01.01.00 Header	ElectronicAddresses	Header This section allows for the description of many electronic addresses per owning Organization.	Optional; 0 to many instances of ElectronicAddress allowed per		
	ORG Electronic Address	01.01.01	ElectronicAddressText	A resource address, usually consisting of the access protocol, the domain name, and optionally, the path to a file or location.	Conditional (see business rule)	string max 120	Required if electronic address type na
	ORG Electronic Address	01.01.02	ElectronicAddressTypeName	The name that describes the electronic address type.	Conditional (see business rule)	From domain values string max 8	Required if electronic address text is p
	ORG Telephonic	01.02.00 Header	Telephonic	Header This section allows for the description of many telephone numbers per	Optional; 0 to many instances of Telephonic allowed per		

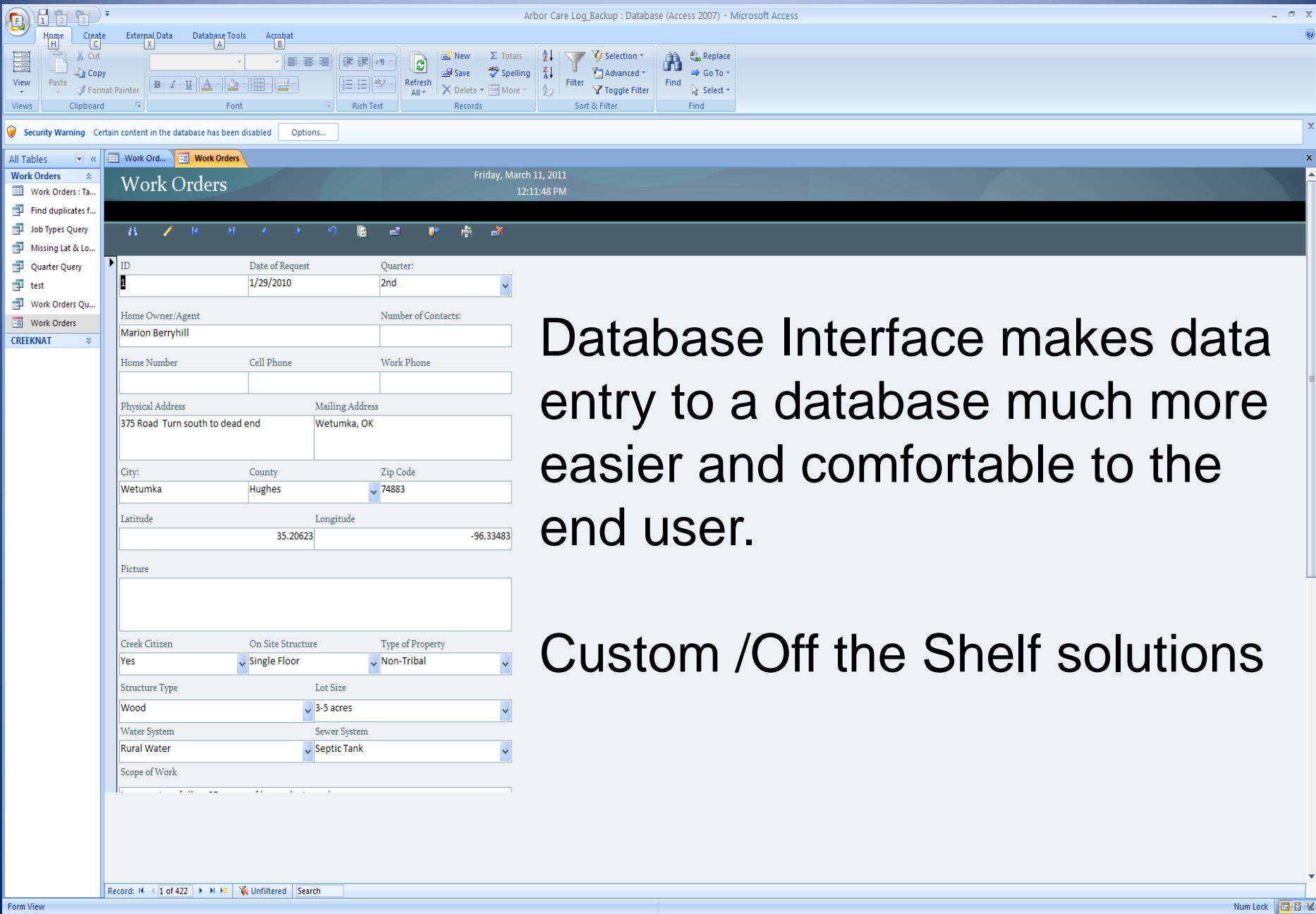
Home Insert Page Layout Formulas Data Review View Acrobat

Paste Font Alignment Number Styles Cells Editing

Clipboard Font Alignment Number Styles Cells Editing

B95 fx Biological Habitat Index

Water Quality Exchange (WQX) Version 2.1							
Category (Purple: added in version 2.0 Green: field length changed in version 2.1)	Sub Category	Sort Within Category	Data Element XML	WQX Definition	Optionality	Data Type	Business Rule or Additional D
[Red Text: added in version 2.1 for minor clarifications and field length changed in version 2.1]	Biological Habitat Index	04.01	IndexIdentifier	A designator used to describe the unique name, number, or code assigned to identify the index record.	Conditional (see business rule)	string max 35	Required if BiologicalHabitatIndex is r
	Biological Habitat Index	04.02	IndexType	Header: This section identifies the index type reported as part of a biological or habitat	Conditional Required if BiologicalHabitatIndex is reported.		
	Biological Habitat Index	04.02.01	IndexTypeIdentifier	A designator used to describe the unique name, number, or code assigned to identify the index (Organization specific).	Conditional (see business rule)	string max 35	Required if IndexType is reported.
	Biological Habitat Index	04.02.02	IndexTypeIdentifierContext	Identifies the source or data system that created or defined the index.	Conditional (see business rule)	string max 50	Required if IndexType is reported.
	Biological Habitat Index	04.02.03	IndexTypeName	Name of the habitat or biotic integrity index.	Conditional (see business rule)	string max 50	Required if IndexType is reported.
	Biological Habitat Index	04.02.04	IndexTypeCitation	Header: Provides additional description of the source that created or defined the index.	Optional May have 0 to 1 for each instance of BiologicalHabitatIndex		
	Biological Habitat Index	04.02.04.01	ResourceTitleName	A name given to the resource	Conditional (see business rule)	string max 120	Required if IndexTypeCitation is reported
	Biological Habitat Index	04.02.04.02	ResourceCreatorName	An entity primarily responsible for making the content of the resource.	Optional	string max 120	
	Biological Habitat Index	04.02.04.03	ResourceSubjectText	A topic of the content of the resource.	Optional	string max 4000	
	Biological Habitat Index	04.02.04.04	ResourcePublisherName	An entity responsible for making	Optional	string max 60	



Database Interface makes data entry to a database much more easier and comfortable to the end user.

Custom /Off the Shelf solutions

Overview of Database

- Develop workflows with your data flow into your processes and even drop downs with domain values
- Don't limit database from growth or future changes
 - May start small but allow for growth and increase in records (ie: MS Access to SQL Server)
 - May want to incorporate continuous monitoring data
- Map database to xml schema
 - Only required fields are needed
- Node Users – Automated scheduled submission of data
- Node Client – Manually submit data

Resource: Tribal GIS

- www.tribalgis.com
- Executive Members
 - Letisha Couch
 - David Wyatt
 - Frank Harjo
 - Garet Couch

Tribal GIS.com serves as a communication line for Indian Country. Many tribes, colleges and organizations have adopted GIS over the years. The Tribal GIS organization provides a professional platform for Tribal Personnel, Tribal colleges/universities and Organizations to share their successes in GIS, with the idea that your knowledge may help another community or program.

Wealth of information
including Webinars, Regional
Meetings, ListServe, Discussion Forums



Welcome, **Guest**. Please [login](#) or [register](#).

Forever

Login with username, password and session length

Tribal GIS Community Forum

General Category

	<p>General Discussion Feel free to talk about anything and everything in this board. <i>Moderators: lcouch, Gcouch</i></p>	<p>2 Posts 2 Topics</p>	<p>Last post by Gcouch in ArcGIS 10 is now availab... on December 10, 2010, 10:14:51 PM</p>
	<p>FGDC Cultural Resource Workgroup Forum Forum for the discussion of issues related to the Federal Geographic Data Committee Cultural Resource Work Group. This committee is seeking to set common standards for all geographic data collected on Public lands. Please join the conversation and help to establish standards that will allow us to all talk the same geographic language. <i>Moderators: lcouch, Gcouch, JCancel, pbackhouse</i></p>	<p>10 Posts 10 Topics</p>	<p>Last post by jcronce in April 19 Conf Call, Secu... on April 20, 2011, 09:25:16 AM</p>
	<p>Forum for the discussion of geospatial issues between Tribes and the US government This forum is available as point of communication between Tribal GIS staff and US government agency staff to discuss relevant issues relating to geospatial activities. In addition to this forum there is a group of Tribal and Federal employees that have ongoing conference calls to discuss Tribal & Federal geospatial issues. Notes from these calls and other related information is included in the forum posts. This forum is not government to government consultation, it is intended to be an open dialog between GIS or related professionals working for both Tribal governments and US federal agencies to discuss common issues. US federal agencies seeking Tribal consultation should do so through their individual department guidelines. <i>Moderator: frank_m_roberts</i></p>	<p>1 Posts 1 Topics</p>	<p>Last post by frank_m_roberts in Geospatial Relations Gro... on February 11, 2011, 11:51:08 AM</p>
	<p>Oklahoma Area Tribal GIS Group Regional group of Tribal GIS professionals. This group meets quarterly to discuss Tribal</p>	<p>0 Posts 0 Topics</p>	<p>Last post by lcouch</p>



ABOUT US

EVENTS

VIDEOS

CONTACT

2011 CONFERENCE

MEMBER SPOTLIGHT



Southwestern Indian Polytechnic Institute

To learn about SIPI and their GIS activities click here

click here to view previous member spotlight articles

2011 National Tribal GIS Conference

Tentative October 24 - 28 2011

[2011 Agenda Coming Soon](#)

[Conference Lodging Coming Soon](#)

[2011 Conference Online Registration Coming Soon](#)



Comparison of GIS and EN

	GIS	EN
Database Management	√	√
Enterprise Solutions	√	√
Standards & Schemas	√	√
Decision Making	√	√

Questions