Incorporating NCED data into Biotics

National Conservation Easement Database (NCED): Background information

What is the NCED?

http://www.conservationeasement.us/ http://nced.conservationregistry.org/ http://nced.conservationregistry.org/pdf/NCED Users Guide 6 8 2011.pdf

The National Conservation Easement Database (NCED) is the first national database of conservation easement information, compiling records from land trusts and public agencies throughout the United States. Voluntary and secure, the NCED respects landowner privacy and does not collect landowner names or sensitive information. This public-private partnership brings together national conservation groups, local and regional land trusts, and state and federal agencies around a common objective. The NCED provides a comprehensive picture of the estimated 40 million acres of privately-owned conservation easement lands, recognizing their contribution to America's natural heritage, a vibrant economy, and healthy communities.

Purpose

In collaboration with land trusts and public agencies, create a single, up-to-date, sustainable nationwide system for managing and accessing data about conservation easements.

Who?

The U.S. Endowment for Forestry and Communities, with generous support from the Gaylord and Dorothy Donnelly Foundation, is providing the funding for the project to five leading conservation organizations, including: Conservation Biology Institute, Defenders of Wildlife, Ducks Unlimited, NatureServe, and The Trust for Public Land. Three federal agencies - the U.S. Fish & Wildlife Service, U.S. Department of Agriculture's Natural Resources Conservation Service, and the U.S. Forest Service - are sponsors of the effort and are partnering with the Endowment in support of the national database. Other key sponsors include The Nature Conservancy and the Land Trust Alliance.

Obtaining NCED data

The NCED Easement data is available for download as both shapefiles and as a geodatabase on the <u>NCED Data Download page</u>, however for the purpose of this exercise, **download the data as a geodatabase**. You can download either the national dataset or the data for a particular region:

http://nced.conservationregistry.org/easements/download_data

See <u>Appendix I</u> for the NCED Data Dictionary.

Extract the zipped geodatabase file to C:\TEMP.

Download the necessary scripts, MS Access database, etc. from the <u>Biotics Trainings & Clinics</u> web page under the Materials section for the Support Clinic hosted on Aug 3, 2011. Alternatively, it can be downloaded from the <u>NatureServe transfer site</u>.

Export Data from Geodatabase

Both the spatial data and tabular data will be exported for separate import processes into Biotics. Because .dbf tables truncate data to 255 characters per field, we'll export the tabular data to a text file rather than use it from the shapefile's .dbf file.

Export Spatial Data

- 1. In ArcMap, right select your NCED geodatabase within the table of contents (assuming it has been added to the view).
- 2. Right click on the geodatabase and choose **Data Export Data.**
- 3. Navigate to where you would like to save the shapefile and name it appropriately (e.g. X:\Whitney\NCED\NCED.shp).



Export Tabular Data

- 4. Right click on the geodatabase and choose **Open Attribute Table.**
- 5. Within the attribute table choose **Options** and **Export**

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	5 5	No - Not sensitive		Berkshire Natural Resources Council, Inc
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	7 7	No - Not sensitive	Burnett Farm	MA Department of Agricultural Resource
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Navigate to where you would like to save the tabular data and name it appropriately (e.g. X:\Whitney\NCED\NCED.txt), making sure to select **Text File** from the "Save as type" dropdown list

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Create NCED table in Biotics

The NCED data will be imported into some existing Managed Area fields but many additional fields were required to accommodate the data. Therefore the remaining data will be imported into an extensible table which will be created with the MA_EXT_NCED.sql script. The script will write a log file to the C:\temp directory so make sure one exists and you have write access to it!

- 1. Log into SQLPlus as the biotics_user.
- 2. Run the MA_EXT_NCED.sql script.



- 3. Review the log file (C:\temp\MA_EXT_NCED.log) for errors by searching for ORA-. Ignore any of the following error: "ERROR at line 1: ORA-00942: table or view does not exist".
- If you receive additional errors, submit an issue to the <u>Biotics Help Desk</u> with the subject line "NCED". Attach the MA_EXT_NCED.log file to the issue.
- 5. Do not exit SQLPlus as we will be using it again later.

Import Tabular Data into NCED Extensible table in Biotics

The following instructions assume that you want to import ALL of the data from NCED into Biotics, however, some of the data may already be represented in Biotics (perhaps indicated as such by a Managed Area code (i.e. M.USFLHP*xxxx) within the Origuid field. Any such records which already exist in Biotics should be not be included in the data to be loaded in Biotics, to avoid duplications.

Connect to your Biotics database

- 1. Double-click NCED.accdb found within C:\Temp\NCED to open the NCED Access database .
- 2. If within the Access database you receive a Security Warning stating that certain content has been disabled, click **Options** and choose to **Enable this Content**.
- Under the BIOTICS_USER_MANAGED_AREA_OWNER section, double-click BIOTICS_USER_MANAGED_AREA_OWNER to connect to the data within your Biotics Oracle database.
- 4. Within the Oracle ODBC Driver window, enter the appropriate Service Name, User Name, and Password to connect to your Biotics database and click **OK**.

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Cancel
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Import NCED tabular data into Access

1. Right click on NCED : Table and choose Import – Text File.



 Within the *Get External Data – Text File* dialog, navigate to where you saved the tabular data you exported from the attribute table in ArcMap (e.g. C:\Temp\NCED\NCED.txt) and click **OK**. Because the data will be entered into multiple tables, we can't append it directly at this point.



3. Within the Import Text Wizard accept the default of Delimited and click Next.

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Scroll to the right until you find the DataEntry field. Select it and change the Data Type to Text.
 Failing to do so will result in import errors as Access doesn't recognize the date/time format in the data set. Click Next.

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8. Name the table **NCED** and click **Finish**. *Failing to name it exactly will result in the automated query failing.*

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Transfer data from Access to Biotics

- 1. Under the "NCED" heading, double-click the **Populate CoHeld** query which will populate any null values in the CoHeld field to 'N'. This is required for a boolean field.
- Under the "Unrelated Objects" heading, double-click the NCED to BIOTICS_USER_NCED Query which will export the data from the NCED table in Access to the NCED table in Biotics (i.e. BIOTICS_USER_NCED).
- 3. Return to SQLPlus (should still be logged in as the biotics_user) and run the incongruous_data_values.sql script found within C:\Temp\NCED.



- 4. Open the resulting log file **INCONGRUOUS_DATA_VALUES.log** found in the C:\TEMP\NCED directory. The file reports any values within your NCED data which which do not align with the values within the corresponding domain tables.
- 5. Edit the NCED.sql script in NotePad (or WordPad or...) and add to the UPDATE statements to accommodate for all of the incongruous data values, assigning the appropriate ID value. Failing to do so will result in the value not being imported.

For example, if you have a value of LandType='NGO', select the D_OWNER_TYPE_ID (33) which corresponds to 'Non-Governmental Organization'. You can find the appropriate ID value by looking at the D_OWNER_TYPE table via Tracker's Query Builder.

- 6. Once you have updated the **NCED.sql** script as necessary, run it in SQLPlus. This script will assign domain IDs for the corresponding tabular data.
- In Microsoft Access, under the Unrelated Objects section, double-click the BatchScript1 to open it.
- 8. Within Microsoft Visual Basic NCED, click the 🕨 icon to run BatchScript1.
- 9. In the Macros window, click **Run** which will run a number of queries to populate the SHAPE and NCED tables.

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10. Reply Yes when prompted six (?) times regarding appending data to your table. NOTE: This will take a while to run and may appear as though it's done but will then come up with another hourglass indicating that it's still working. It has finished once the BIOTICS_USER_NCED No Name Query table has opened.

Microsof	t Office Access
1	You are about to run an append query that will modify data in your table. Are you sure you want to run this type of action query? For information on turning off confirmation messages for document deletions, click Help. Show Help >>
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- 11. Once the BIOTICS_USER_NCED No Name Query table has opened , close the Microsoft Visual Basic NCED window.
- 12. BatchScript1 runs a query (**BIOTICS_USER_NCED No Name Query**) to identify which records do not have an easement name. These records need to be given names in the **SiteName** field prior to continuing with step 8 or they will not be inserted into the MA table, as name is a required field.
- 13. Under the BIOTICS_USER_NCED section, double-click the **BIOTICS_USER_NCED to BIOTICS_USER_MA Query**. Respond **Yes** when prompted to append the data.
- 14. In SQLPlus while logged in as the biotics_user, run the following statements:

Update nced set managed_area_id = (select managed_area_id from ma where rec_create_user='NCED' and ma.shape_id=nced.shape_id);

Commit;

- 15. In Microsoft Access, under the Unrelated Objects section, double-click the **BatchScript2** which will run queries to populate the MA_EXT_NCED and MANAGED_AREA_OWNER tables.
- 16. Within Microsoft Visual Basic NCED, click the 🕨 icon to run BatchScript1.
- 17. In the Macros window select Database2.BatchScript2.run_queries and click Run.

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18. Reply Yes when prompted four (?) times regarding appending data to your table.

The tabular data has now been populated in Tracker. At this point we'll link the spatial data from NCED.shp to the tabular records.

Extend Tracker to Accommodate NCED Data

Create Extensible Tab in Tracker

Just as an FYI, Administrator aborted multiple times during the creation of these extensible tabs, which resulted in inefficiency to say the least. Whether this is due to the number of fields on the tabs or an issue with my computer, I don't know. Regardless, creating the extensible tabs in the following manner will enable you to avoid such pitfalls:

- Fill out the first (Object) section
- Within the Table Column information, fill complete the configuration for the first 3 fields, then uncheck 'Visible' for the remaining fields. Failing to do so will require you to label them all prior to saving. Click OK to save the changes.
- Edit the tab to continue, labeling and making visible all but the fields which utilize a ComboBox (domain attributes). Click OK to save changes.
- Edit the tab and configure the remaining (domain) attributes which utilize a ComboBox and make them visible.
- In the Biotics Administrator, create extensible tabs according to directions within section 8.4 (Configure Dynamic Tabs) of the <u>Biotics 4.0 Installation</u>, <u>Configuration</u>, <u>and Administration</u> Guide.

Object			-		
Name:	MA_EXT_NCE	D			
Description:	MA_EXT_NCE	D		Tab Caption:	Easement Data
Table Name:	MA_EXT_NC	ED	•		🔲 Is Grid Layout?
Window to extend:	Managed Are	3	•		
able Column Inform	ation				
Seq Order Column	n Name	Column Type	Size		<u>~</u>
1 MA_E	KT_NCED_ID	NUMBER			27
2 NCED	LIU Ged Area Id	NUMBER			27
4 SECUE	RITY	CHAR			1
5 US ID		NUMBER			27
6 D CA1	EGORY ID	NUMBER			27 💌 🗖
ote: To rearrange	rows, hold down	the shift-key and	d drag row to new positio	n or use the Arrow	Buttons on the right
and side or the grid. Extended attribute:	⊳forMA_EXT_N				
Control Tupe:	FoutPou	-	1		
	I CALDON		1		
Label Text			🔽 Primary Key 🔲 F	oreign Key from E	xtensible Table 🔲 Visibl

a. Create extensible tab for MA EXT NCED as shown below:

	Control		Primary	Foreign	Visibl				
Column Name	Туре	Label Text	Кеу	Кеу	е	Domain Table	Data Column	Display Column	Display Width
MA_EXT_NCED_ID			х						
NCED_ID	TextBox	NCED ID			x				
MANAGED_AREA_I									
D				X	_				
US_ID	TextBox	Unique ID (USGS)			x				
	ComboBoy	Catagony			×			DISPLAY_VALU	15
	Сопровох	Category			X	D_CATEGORY	D_CATEGORY_ID		15
D_P_DES_TP_ID	ComboBox	Primary Designation Type			x	D_P_DES_TP	D_P_DES_TP_ID	E	100
P LOC DS	TextBox	Primary Local Designation Type			x				
						D SEC DES T	D SEC DES TP I	DISPLAY VALU	
D_SEC_DES_TP_ID	ComboBox	Secondary Designation Type			x	P	D	E	100
S_LOC_DS	TextBox	Secondary Local Designation Type			x				
S_DES_NM	TextBox	Secondary Designation Name			x				
S_LOC_NM	TextBox	Secondary Local Name			x				
								DISPLAY_VALU	
D_STATUS_ID	ComboBox	Status			х	D_STATUS	D_STATUS_ID	E	100
	ComboBox	State Name			v	D STATE NM		DISPLAY_VALU	15
	соптровох				^	D_STATE_NW		L	15
WDPA_CD	TextBox	WDPA Site Code			х				
	ComboBox	GAP Status Codo			v	D GAD STS		DISPLAY_VALU	100
D_0AF_313_10	соптровох	GAF Status Code			^	D_0AF_313	D_0AF_313_1D		100
D_IUCN_CAT_ID	ComboBox	IUCN Category			x	D_IUCN_CAT	D_IUCN_CAT_ID	E	100
GAPCDSRC	TextBox	GAP Status Code Source			x				
	Date								
GAPCDDT	Control	GAP Status Code Date			x				
AGG_SRC	TextBox	Aggregator Source (Data Aggregator)			x				
GIS_SRC	TextBox	GIS Source (Data Source)			x				
GLOBALID	TextBox	Global ID (USGS)			x				
	Date								
REC_CREATE_DATE	Control								

b. Create extensible tab for MA_EXT_NCED_CBI as shown below:

📲 Dynamic Tab	Manager - Edit				
Dynam	ic Tab M	lanage	er		
- Object	Multimisus				
Name:	MA_EXT_NCED_C	:BI			
Description:	MA_EXT_NCED_C	:BI		Tab Caption:	Easement Data, cont'd
Table Name:	MA_EXT_NCED_	CBI	•	·	🔲 Is Grid Layout?
Window to extend	t: Managed Area			·	
Table Column Inform	nation				
Seq Order Colum	nn Name	Column Type	Size		<u>^</u>
1 MA_E	XT_NCED_CBI_ID	NUMBER			27
2 NUEL 2 MAN	LID VCED VDEV ID	NUMBER			27
		CHAR			1
5 OBIG		VABCHAB2			50 +
6 ESM1	HLDB	VARCHAR2			100 🗸 🔄
Note: To rearrange hand side of the gri	rows, hold down the : d.	shift-key and drag	g row to new posit	ion or use the Arrow	Buttons on the right
Extended attribute	es for MA_EXT_NCED	_CBI_ID			
Control Type:	TextBox	•			
Label Text			Primary Key 🥅	Foreign Key from Ex	ktensible Table 🦵 Visible
L					
				<u>0</u> K	<u>Cancel</u> <u>H</u> elp

	Control	Label Table	Primary	Foreign	NG - The La	Demois Table	Data Caluma		Display
Column Name	Туре	Label Text	Кеу	Кеу	Visible	Domain Table	Data Column	Display Column	Width
MA_EXT_NCED_ID			х						
NCED_ID	TextBox	NCED ID			x				
MANAGED_AREA_ID				х					
SECURITY	CheckBox	Security			x				
ORIGINAL_UID	TextBox	Unique ID (CBI)			x				
ESMT_HLDR	TextBox	Easement Holder			x				
D_ESMT_HLDR_TYPE_ID	ComboBox	Easement Holder Type			x	D_ESMT_HLDR_TYPE	D_ESMT_HLDR_TYPE_ID	DISPLAY_VALUE	100
COHELD	CheckBox	CoHeld			x				
D_DURATION_NCED_ID	ComboBox	Duration			x	D_DURATION_NCED	D_DURATION_NCED_ID	DISPLAY_VALUE	15
TERM	TextBox	Term			x				
ACQ_DAY	TextBox	Acquisition Day			x				
ACQ_MONTH	TextBox	Acquisition Month			x				
ACQ_YEAR	TextBox	Acquisition Year			x				
DATAPROVIDER	TextBox	Data Provider			x				
D_BOUND_CONF_ID	ComboBox	Boundary Confidence			x	D_BOUND_CONF	D_BOUND_CONF_ID	DISPLAY_VALUE	75
D_PURPOSE_ID	ComboBox	Purpose			x	D_PURPOSE	D_PURPOSE_ID	DISPLAY_VALUE	25
REPORTED_AREA	TextBox	Reported Area			x				
REC_CREATE_DATE	Date								

Set Security for new Extensible Tabs

See Section 8.5 (Security for Dynamic Tabs) of the <u>Biotics 4.0 Installation, Configuration, and</u> <u>Administration Guide</u>.

- 1. Within Biotics Administrator, double-click Functions.
- 2. Complete the Functions window as displayed below and click Edit

a Functions		
Functions	testor	
Application		
Tracker	•	
Category		
Managed Area	•	
Function List		
Access Classification	<u>^</u>	New
Access Ecoregions		
Create new MA		<u>E</u> dit
Edit MA BCD fields		Delete
Edit MA non-Mapper fields		
Find MA	×	
	<u>C</u> lose	<u>H</u> elp

- 3. Within the Control List section of the Function Manager, expand ManagedAreaDetails.
- 4. Select all references to MA_EXT_NCED_and MA_EXT_NCED_CBI and hit the icon to add them to the Selected Controls. **NOTE:** These should be easy to find due to the all caps. Each tab has three sets of controls: Control Types, Lables, and Picture Box, so make sure to scroll all the way through ManagedAreaDetails and select them all.

🚔 Function Manager - Edit			
Function Manager			
Function Name:		Subject Area:	
Edit MA non-Mapper fields			•
,			
Control List			
IbIMA_EXT_NCED_MA_EXT_NCED_ID0001	Label		~
IbIMA_EXT_NCED_NCED_ID0003	Label		
IbIMA_EXT_NCED_P_LOC_DS0015	Label		
IbIMA_EXT_NCED_REC_CREATE_DATE0045	Label		
IbIMA_EXT_NCED_SECURITY0007	Label		
IbIMA_EXT_NCED_S_DES_NM0021	Label		
IbIMA_EXT_NCED_S_LOC_DS0019	Label		-
IbIMA_EXT_NCED_S_LOC_NM0023	Label		
IbIMA_EXT_NCED_US_ID0009	Label		
IbIMA_EXT_NCED_WDPA_CD0029	Label		✓
		▲	
Selected Controls		•	
ManagedAreaDetails	Form	ManagedAreaDetails ActiveX	
+ MA_ElementGrid	Form	MA_ElementGrid ActiveX	
		<u>o</u> k <u>c</u>	ancel <u>H</u> elp

- 5. Click **OK** and **Close** the Functions window.
- 6. Exit Biotics Administrator. The two tabs should now be editable in Tracker.

Import Spatial Data in Mapper

- 1. In Mapper, close the View window by clicking on the x in the right hand corner (not the uppermost x, as this will close Mapper)
- 2. In the ArcView project window, from the 'Project' menu, choose 'SQL Connect'



- 3. In the 'SQL Connect' window, choose the 'Connection' of **ORA_SERVER.**
- 4. Click **Disconnect** then **Connect**.
- 5. In the Oracle ODBC Driver Connect prompt, enter the password for your biotics_user and click **OK.**

Oracle ODBC Driver Connect	×
<u>S</u> ervice Name	
ORACLE_SERVER	
User Name	UK
BIOTICS_USER	Cancel
<u>P</u> assword	About

6. Complete the SQL Connect window as shown and described below:

🍳 SQL Connect		- 🗆 ×
Connection: ORA_SERVER	•	Connect
Tables	Columns	Disconnect
LINK_SOURCE_FEATURES_VW	<a>All Columns> MA_EXT_NCED	_ID
MA_DVW MA_EXT_NCED MA_HVW	MANAGED_ARE SECURITY	A_ID
MA KEYWORD USED BY	USID	
Select: ×		
from: "MA_EXT_NCED"		
where:		
Output Table: MA_EXT_NCED	Clear	Query

- i. In the 'Tables' dropdown list, choose the **MA_EXT_NCED** table double click on it, so "MA_EXT_NCED" is populated in the 'from:' box.
- ii. In the 'Columns' dropdown list, choose the **<All Columns>** table double click on it, so ***** is populated in the 'Select:' box.
- iii. Rename the 'Output Table:' to MA_EXT_NCED
- iv. Hit the **Query** button then hit **Clear**.
- v. The MA_EXT_NCED table will open.
- Repeat the steps above to add the MA table but rather than selec ting <All Columns> under the Columns section, just select MANAGED_AREA_ID and SHAPE_ID.
- vii. After completing the SQL Connect window as shown below, click **Query** and then close the window.

🍳 SQL Connect	_ 🗆 🗙
Connection: ORA_SERVER	Connect
Tables	Columns Disconnect
LINK_SOURCE_FEATURES_VW MA_ MA_DVW MA_EXT_NCED MA_EXT_NCED_CBI MA_UNNV	<pre></pre>
Owner:	
Select: "MA"."MANAGED_AREA_ID", "M	IA''.''SHAPE_ID''
from: ["MA"	
where:	
Output Table: MA	Clear Query

- viii. The MA table will open.
- b. From the Window menu, choose **View1** to switch to the View. If it's not available, within the Project window's Table of Contents, click **View1** and click **Open**.
- c. Within the View, add the NCED.shp theme to the window (File menu, Long Menus, Add Theme icon 1)
- d. Select the theme in the Table of Contents to make it active and from the Theme menu, choose **Start Editing.**
- e. Open the attribute table:
 - i. From the 'Theme' menu, choose 'Table' or
 - ii. Click the 'Open Theme Table' icon 🗐
- f. From the Edit menu, choose Add Field.
- g. Within the Field Definition, enter **US_ID** as the Name and (maintaining the default choice of Type = Number, Width = 16, Decimal Places = 0) click **OK**.

🍳 Field Definition	×
Name: US_ID	ОК
Type: Number	Cancel
Width: 16	
Decimal Places: 0	

- h. From the Field menu choose **Calculate.**
- i. Within the Field Calculator, double-click the **[Uid]** field and type .asnumber and click **OK**, as illustrated below.

🍳 Field Calculator		×
Fields [Objectid] [Uid] [Security] [Sitename] [Esmthldr] [Eholdtyp]	Type Number String Date	Requests + ++ <
[US_ID] = [Uid].asnumber		▲ OK Cancel

- j. From the 'Window' menu, choose 'Tile' so that you can see both the theme's attribute table and the MA_EXT_NCED table. If the MA_EXT_NCED table is not displayed follow the instructions below:
 - i. In the Project window, select **Tables** from the Table of Contents.
 - ii. From the Project menu, select **Show All Tables.**
 - iii. Select the MA_EXT_NCED table and click Open.
 - iv. Within the MA_EXT_NCED table, again go to the Window menu and select Tile to see both the MA_EXT_NCED and Attributes of Nced.shp tables at the same time.
- k. In the MA_EXT_NCED table, highlight the **US_ID** field.
- I. In the Attributes of Nced.shp table, highlight the corresponding US_ID field.
- m. With the **Attributes of Nced.shp** table active, from the 'Table' menu, choose 'Join'. This will join the data from the MA_EXT_NCED table to the Attributes of Nced.shp file.
- n. In the MA table, highlight the **MANAGED_AREA_ID** field.
- o. In the Attributes of Nced.shp table, highlight the corresponding MANAGED_AREA_ID field.

- p. With the **Attributes of Nced.shp** table active, from the 'Table' menu, choose 'Join'. This will join the data from the MA table to the Attributes of Nced.shp file.
- 7. Click on View1 and from the Theme menu choose **Stop Editing**, responding **Yes** when prompted to save changes.
- 8. From the Biotics menu choose Input/Edit.
- 9. Within the BIOTICS Input/Edit window, choose Managed Areas and click OK.
- 10. From the Admin menu choose Batch Link Shapes to Data Records.
- 11. Within the Choice window, select **Nced.shp** from the dropdown list as the theme containing the shapes to be match/linked to existing data and click **OK**.
- 12. Within the Choice window, select **SHAPE_ID** from the dropdown list as the field from 'Nced.shp' to link to the FEATURE_ID field in the editable theme and click **OK**.
- 13. In the Warning dialog, confirm the number of records to be processed. This number should correspond to the number of records you loaded into the tabular database. Click **Yes** to continue.

🔲 Warning	×
768 items will b	e processed. Continue?
Yes	No

- 14. When the progress bar and all working dialogs have finished, be sure to query the new records in Mapper and Tracker to confirm that they were linked correctly.
- 15. Click the Close Input/Edit button to end the edit session and post the changes to the master database.

Appendix I: NCED Data Dictionary

Below is an explanation of the attributes for the NCED database. For more specifics on the attribute fields and domains in the geodatabase, please see the following table.

Security – Whether or not the spatial or tabular data can be displayed or download by the general public.

	Display	Download	Display	Download
Security Attribute	Tabular Data	Tabular Data	Location	Location
Yes	Yes	Yes	No	No
No	Yes	Yes	Yes	Yes
No download	Yes	No	Yes	No

Site Name – Site name of easement.

Easement Holder Name – Name of the organization managing or holding the easement.

- **Easement Holder Type** Federal, Tribal, State, Regional agency, Local Government, Non-Governmental Organization (NGO), or Private
- Landowner Type Federal, Tribal, State, Regional agency, Local Government, Non-Governmental Organization (NGO), or Private
- Purpose This attribute describes the easement's intended conservation purpose. The list below shows the name of each domain value (from IRS code) followed by its definition (summarized from IRS code). The definitions are mutually exclusive, which will minimize questions. For Open Space, there are 4 sub-values, which the IRS mentions, including "other".

Domain Definitions:

- Recreation or Education (26 CFR 1.170A-14(d)(2)) requires substantial and regular use by the general public, and does not fit any other definition.
- Environmental System (26 CFR 1.170A-14(d)(3)) Protects significant, high quality examples of terrestrial or aquatic habitats or ecosystems where a fish, wildlife or plant community live. These include but are not limited to, habitats for rare, endangered, or threatened species, or lands contributing to the ecological viability of another conservation area.
- Open Space (26 CFR 1.170A-14(d)(4)) provides scenic (i.e., visual) enjoyment for the general public, helps fulfill a public policy that provides open space by restricting development, or serves another significant public benefit such as preserving the uniqueness of the surrounding area or consistency with public policies promoting conservation. Sub-values: farm (if the land is to be planted with annual plants in part or in full any time during the term of the easement); ranch (if the land is to be hayed or grazed and not planted with an annual); forest (if the land is to be forested and not farmed or ranched); other (if nothing else applies, e.g., for a beach or marsh).

- Historic Preservation (26 CFR 1.170A-14(d)(5)) protects historic values of an area or structure that either is officially designated as such or adjoins such an area or structure, or presents historic values consistent with such official designations.
- Public Access Open Open to public access

Restricted – Public access is restricted

Seasonal – Public access is limited on a seasonal basis

Closed – No public access

Duration – Permanent or Temporary

Term – Term of easement (number of years; if the duration is "Permanent" then the value for the "term" is null.

Acquisition Day – Day easement began

Acquisition Month – Month easement began

Acquisition Year – Year easement began

Boundary Confidence – Accuracy of the geometry, where known.

Reported Area – Acres

GIS Area – Auto calculated by system, acres.

Area Difference – Calculated percent difference between the GIS Area and Reported Area.

- **Comments** If provided by source, provider or aggregator, include in NCED.
- Conflict Whether or not there is a conflict between an NCED polygon and either a different NCED polygon or PAD polygon. Where we are able to correct or adjust through knowledge of the data of from data provider input, data aggregators will use domain of Conflict Adjusted. Where aggregators are unable to determine the appropriate adjustment, the Conflict Not Adjusted domain will be used. This field could also be used to categorize gaps in data as well.
- **Stacked** Where polygons are appropriately stacked, that will be noted in this attribute.

Geodatabase table of attributes, alias, description, domains, type and length:

Field Name	Alias	Field Description	Domain	Field Type	Field Length
UID	Unique ID	Unique identifier		Text	15
Security	Security Code	Privacy requirements for the polygon	Yes No NO NULL	Text	5
SiteName	Site Name	The name of the site (E.g. Smith Preserve)		Text	100

Field Name	Alias	Field Description	Domain	Field Type	Field Length
EsmtHolder	Easement Holder	Name of the organization managing or holding the easement	No, but values should be ties to the Quickbase Inventory List and be in a standard format	Text	100
EsmtHolderType	Easement Holder Type	Whether the holder of the easement is a federal, state, local, tribal, or other legal classification	Federal Tribal State Regional Agency Local Government Non-Governmental Organization Private Data not available NO NULL	Text	50
LandownerType	Landowner Type	Whether the owner of the underlying land is a federal, state, local, tribal, or other legal classification	Federal Tribal State Regional Agency Local Government Non-Governmental Organization Private Data not available NO NULL	Text	50
CoHeld	Co-Held	Whether the easement is co- held by multiple entities	Yes No	Text	3
Purpose	Conservation Purpose	The easement's intended purpose, based on IRS Code	Recreation or Education Environmental System Historic Preservation Open Space – Farm Open Space – Ranch Open Space – Forest Open Space - Other Data not available	Text	50
ConsIntent	Conservation Intent	The conservation intent of the easement , based on GAP Code	 0 - Temporarily Unassigned 1 - Permanent Protection ecological disturbance events allowed to proceed 2 - Permanent Protection ecological disturbance events suppressed 3 - Permanent Protection subject to extractive (e.g. mining or logging) or OHV use 4 - No known mandate for protection 	Text	5

Field Name	Alias	Field Description	Domain	Field Type	Field Length
			4a - Long-term conservation easement (6-14 years) 4b - Short-term Conservation easement (5 years or less)		
PublicAccess	Public Access	Identifies whether the easement is open to public access or not	Open Restricted Seasonal Closed Data not available	Text	20
Duration	Duration	Identifies whether the easement is permanent or term	Permanent Temporary Data not available NO NULL	Text	20
Term	Term	Numeric field noting the term of the easement	# Years	Integer	
Acq_day	Acquisition day	Day easement began		Integer	
Acq_month	Acquisition month	Month easement began		Integer	
Acq_year	Acquisition year	Year easement began		Integer	
State	State	State in which the easement is located	Domain	Text	20
DataAgg	Data Aggregator	Which of the project partners aggregated the data or entity who formatted the data to the NCED schema	Conservation Biology Institute Ducks Unlimited Defenders of Wildlife NatureServe Trust for Public Land The Nature Conservancy Clemson Virginia Heritage Program (NO NULL - other values will be allowed, but notify CBI for their inclusion in the domain)	Text	50
DataEntry	Data Entry Date	Date when entered by NCED partner		Date	
DataProvider	Data Provider	Organization that provided the data	No, but values should be ties to the Quickbase Inventory List and be in a standard format	Text	100
DataSource	Data Source	Source of the data	No, but values should be ties to the Quickbase Inventory List and be in a standard format	Text	100

Field Name	Alias	Field Description	Domain	Field Type	Field Length
OriginalUID	Original UID	Oringinal Unique		Text	100
		Identifier from the			
		data source, if any	4 400 000 N 1	- .	45
BoundConf	Boundary	Description of the	1:100,000 – National	Text	15
	Connuence	the digitizing	1.100 000		
		occurred if known	1.100,000 1.24 000 – National		
			mapping standards		
			1:24,000		
			1:12,000 – National		
			mapping standards		
			1:12,000		
			Cad2gis – CAD file		
			converted to a shapefile,		
			possibly georeferenced		
			cogozgis – coordinate		
			scale boundary manually		
			placed		
			Digbp – Digitized and		
			georeferenced to best		
			available control points		
			Digquad – Digitized and		
			georeferenced to features		
			on the USGS quad		
			Digspot – Digitized and		
			georeferenced to SPOT		
			Imagery Digybpp – Roundary		
			delineated using features		
			on VBMP		
			Parcelg – Boundary		
			originated from		
			jurisdictional parcel data		
			Scrdig – Boundary heads-		
			up digitized by		
			referencing a map outside		
			of GIS		
			Survq – Georeterenced		
			imported into CIS		
			Linknown – Roundary		
			accuracy unknown		
			Digweb – Digitized within		
			the conservation registry		
			mapping interface		
ReportedArea	Reported	Area as reported by		Double	
	Area	data steward, acres			
GISArea	GIS Area	GIS calculated area,		Double	
		acres			

Field Name	Alias	Field Description	Domain	Field Type	Field Length
AreaDiff	Area	Calculated		Double	
	Difference	difference between			
		the GIS area and			
		reported area			
Conflict	Conflict	Status of conflict	No Known Conflict	Text	50
		between other	Conflict – Adjusted		
		geometries	Conflict – No Adjustment		
Stacked	Stacked	Status of stacked	Yes	Text	5
		polygons, whether	No		
		stacking is accurate			
		or not.			
Comments	Comments	Any comments		Text	255
		from either the			
		source, provider or			
		aggregator			