## Natural Resources Inventories

A Fundamental Requirement for Managing Corps Lands

Stewardship Advisory Team

## Objectives

- Gain a better understanding of the development of a level one inventory
- Inventory Relationship to Performance Measures.
- Optional tools for completion
- New Web page information
- Provide a point of contact for more detailed issues and assistance.
- Implement any work FY09.



Purpose of the use of a National Level One Inventory.

- Is used consistently across the nation.
- Has its own unique scale and purpose.
- Provides a standard for use with OMBIL and performance measures (GPRA).
- Provides a national story.
- These core topic areas are from ER 1130-2-540 Chapter 2 Section 2-2 Policy. Activities.

#### **Basic Information**

- How many acres of forest land on projects?
- How many acres of wetlands?
- Largest type of wetlands on our projects?
- How many acres impacted by invasive sp?
- How many acres are degraded?
- How many Federal and state species are we managing?

• How do we set national priorities??

# GPRA Performance Measures and OMBIL

- Percent of completed level one inventory

   Inputs to Vegetation, Soils, Project Species and Wetland forms (Process)
- Acres of Healthy and Sustainable lands.
  - Vegetation NVCS determine weather lands are sustainable, transitioning or degraded. (Results based performance measure)
- Mild compared to other Agencies.



Problem was the level of detail and the standards used and the lack of ability of upward reporting without OMBIL.

Bird list compared to a forest management cover typing.

Benefit - Educates the users on the project lands and uses of tools Such as GIS.



Challenges Level 1 Inventory Implementation

- Projects with GIS capabilities?
- Knowing where to find the information.
- Projects with Fee lands and no staff.
- Lack of Resources Time and \$
- Lack of Conservation specialist in the field.

#### **\$ Budgeted for Level I Inventories**

FY 08 – FY 11

Nationwide \$ 2.85 million.

Stimulus

\$ 3 million

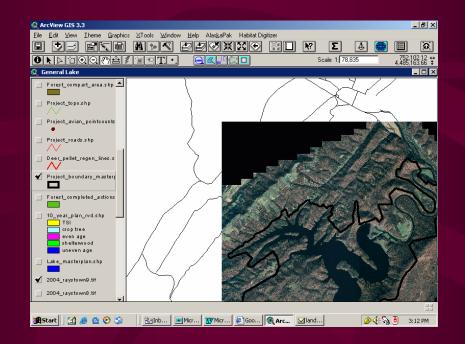
#### Level One Inventory

Project Site Vegetation Classification

	Division	Class	Sub-class
Veç	getated	Closed Tree Canopy	Evergreen Forest
			Deciduous Forest
			Mixed evergreen-deciduous
		Open Tree Canopy	Evergreen Forest
			Deciduous Forest
			Mixed evergreen-deciduous
		Shrubland	Evergreen Forest
			Deciduous Forest
			Mixed evergreen-deciduous
Structure of	the	Dwarf Shrubland	Evergreen Forest
			Deciduous Forest
NVCS			Mixed evergreen-deciduous
		Herbaceous Vegetgation	Perennial gramimoid vegetat
			Perennial forb vegetation Inc
			Hydromorphic herbaceous -
Lake and			Annual graminoid or forb ve
Facilities		Non-Vascular Vegetation	Bryhophyte Vegetation
Facilities			Lichen Vegetation
			Alga
		Sparse Vegetation	
No	n-Vegetated		



# GIS capabilities Aerial Imaging.



Facilitate Vegetation Classification & GIS use.

#### **Basic Methods**

- 200 acres Northern Hardwood.
- 200 acres Oak Hickory
- 200 acres Bottomland Hardwood
- 200 acres Scrub Oak

- 600 acres Closed Tree Canopy Deciduous
- 200 acres deciduous shrub land.

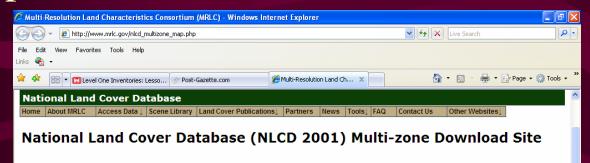
BOPERATIONS AND MAINT	TENANCE BUSINESS INFOR	MATION LINK			_ [	IX
Action Edit Query Recor	rd <u>E</u> ield <u>H</u> elp Window					
🔒 🛝 🚱 😭	😼 K 🔹 🕨	I ∓ 🛪 ?				
noject site vegeta	TION CLASSIFICATION				000000 <u>×</u>	′ ন ১
Project Site POTOMAC RIVER AT ALE) Project Fee-Owned Area		Fiscal Ye 2006	** THE FOLLOWING CL (EXCLUDING CONDITIONAL VEGETATIONAL V	NS) IS DERIVED FR	ROM THE	
21000				Sub-Class		
Division	Order	Class	Sub-Class	Acreage		
VEGETATED	Shrub Dominated	Shrubland (Scrub)	Evergreen shrubland (scrub)	200	Condition	)e
VEGETATED	Herb Dominated	Herbaceous Vegetation	Annual graminoid or forb vegetation	100	Condition	J
VEGETATED	Tree Dominated	Closed Tree Canopy	Deciduous closed tree canopy	1200	Condition	J 🔬
VEGETATED	Tree Dominated	Closed Tree Canopy	Evergreen forest	650	Condition	j R
VEGETATED	Shrub Dominated	Shrubland (Scrub)	Deciduous shrubland (scrub)	480	Condition	J
VEGETATED	Herb Dominated	Herbaceous Vegetation	Perennial forb vegetation	500	Condition	Je
			Total Classified Acreage	3130		
More Info			Total Unclassified Acreage	17870		
			-			
Fiscal Year for the Venetatio						
🏽 🛃 Start 🛛 🚮 🥭 🙆 🕑	) 😂 👋 📴 🖾 🐔	💆 💆 💆 🗒 🖻	₽₽₽₽₽÷\$40>	\$ 🗋 브 😒 🖭 🗖	4:58	PM

## Vegetation Accounting for the Lake

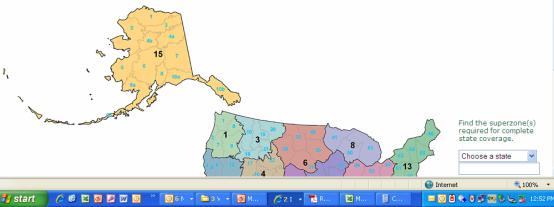
- The conservation pool should be classified as non-vegetated.
- Allows for assigning condition assessments.

#### **Other Sources of Data**

 National Land Cover Data http://www.mrlc.gov/nlcd\_multizone\_map. php



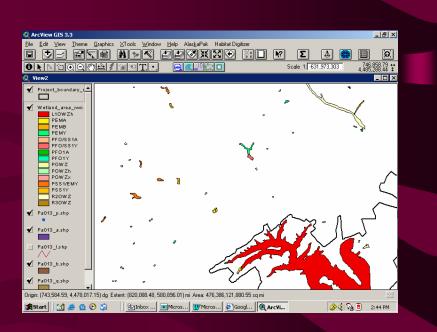
The Multi-Resolution Land Characteristics Consortium (MRLC) has completed the National Land Cover Database (NLCD) 2001 products for the conterminous United States, Hawaii, Alaska and Puerto Rico at 30 m cell resolution. The NLCD 2001 products (land cover, impervious surface and canopy density) were generated from a standardized set of data layers mosaicked by mapping zone. Typical zonal layers included multi-season Landsat 5 and Landsat 7 imagery centered on a nominal collection year of 2001, and Digital Elevation Model based derivatives at 30 meters spatial resolution. NLCD 2001 used an improved classification algorithm from NLCD 1992, resulting in a more precise rendering of spatial boundaries between 16 classes of land cover (additional classes are available in coastal areas and Alaska only). A shapefile with the standard NLCD zones as well as a multizone attribute is available for <u>download here</u>.

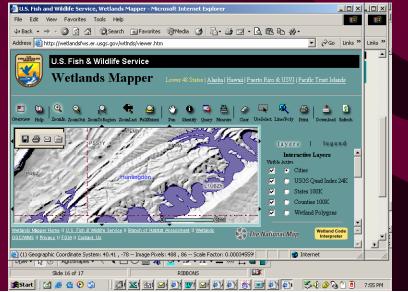


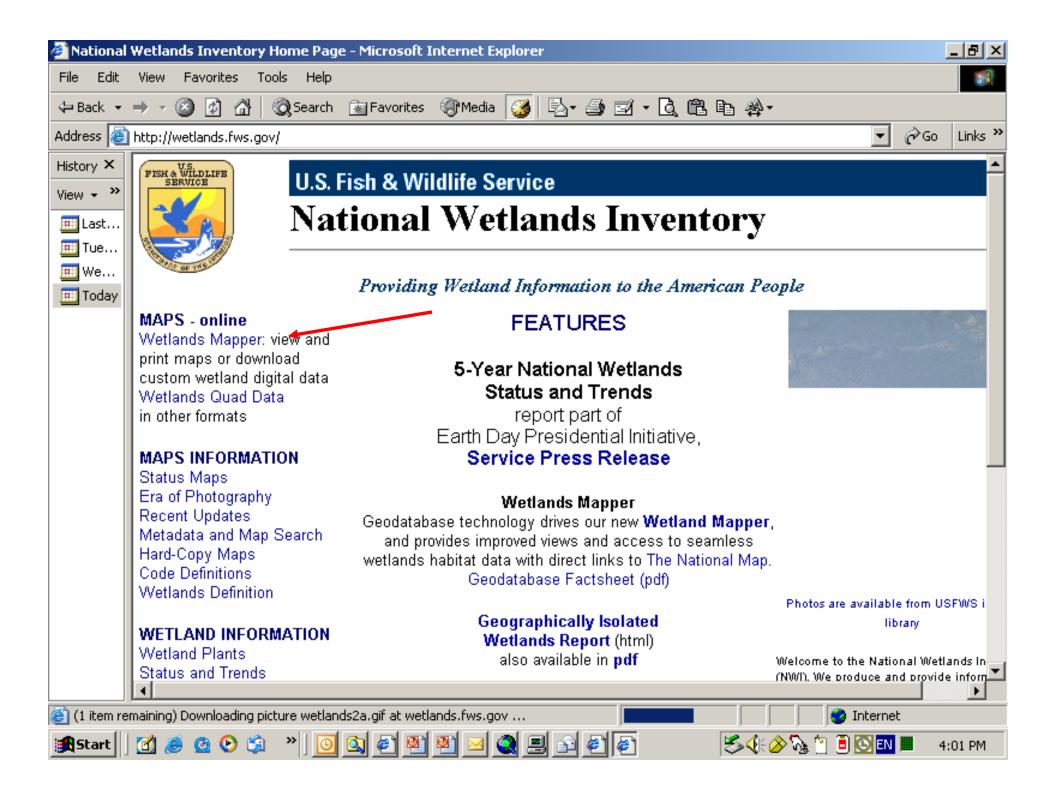
Level One Inventory Project Wetland Classification

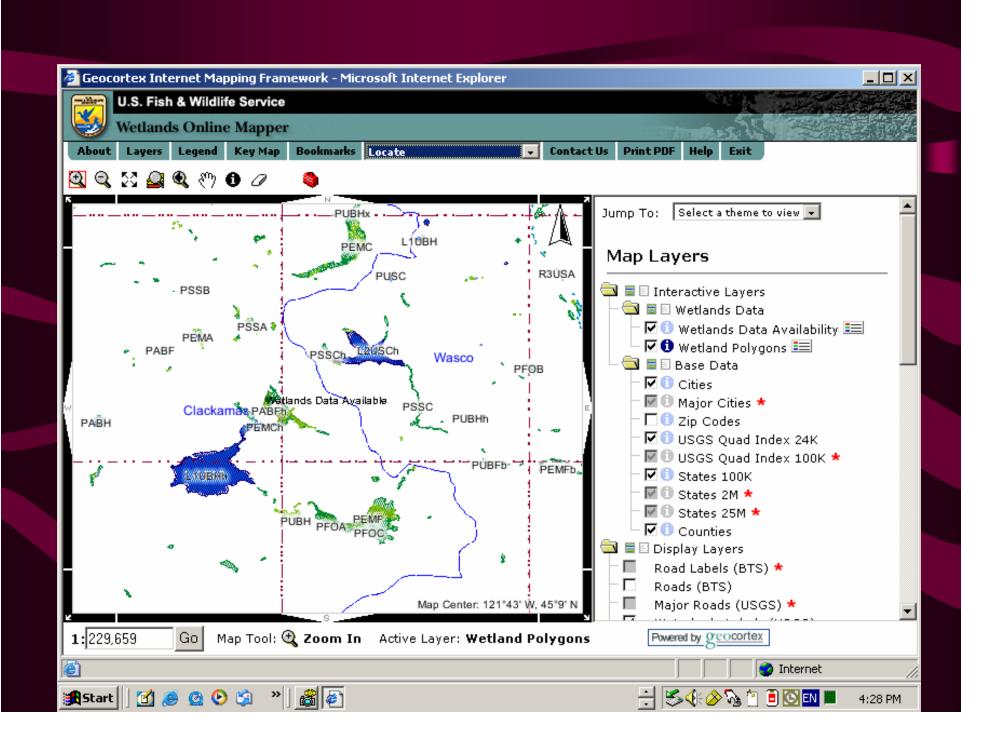
#### FWS NWI - Wetland Inventory.

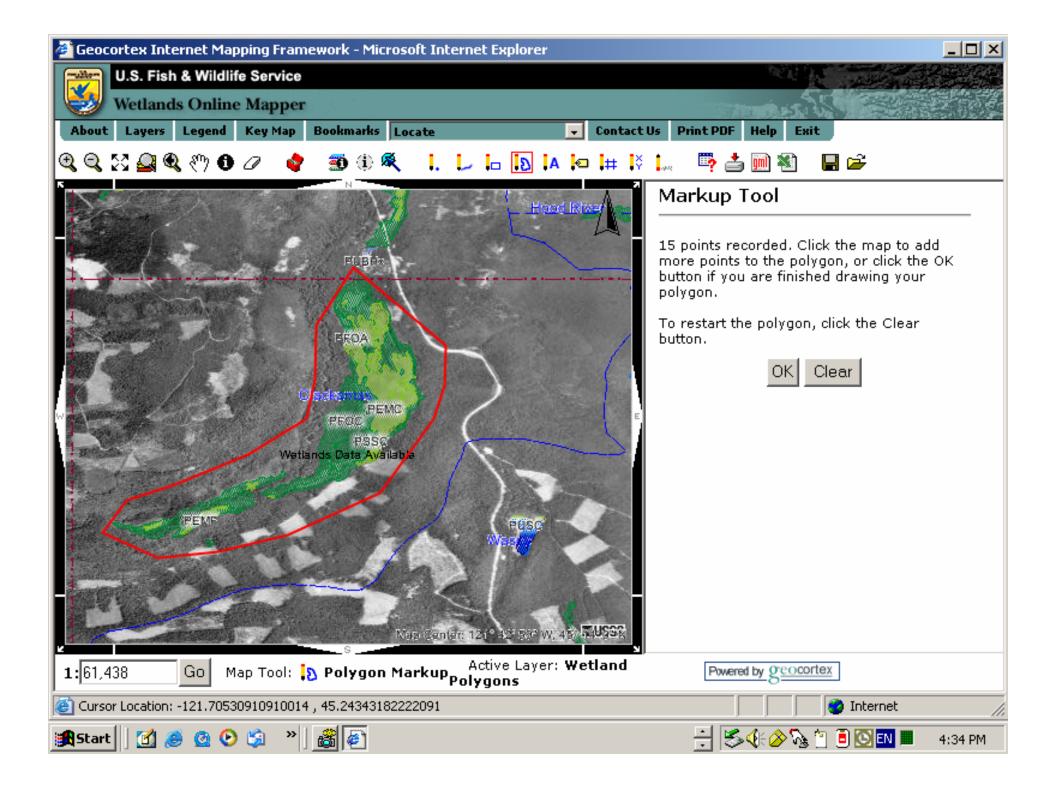
- GIS data and hard copy maps of the National Wetland Inventory.
- On-line Wetland Mapper.
- Select areas -give you wetland classification and type.
- Not looking for jurisdictional wetlands.

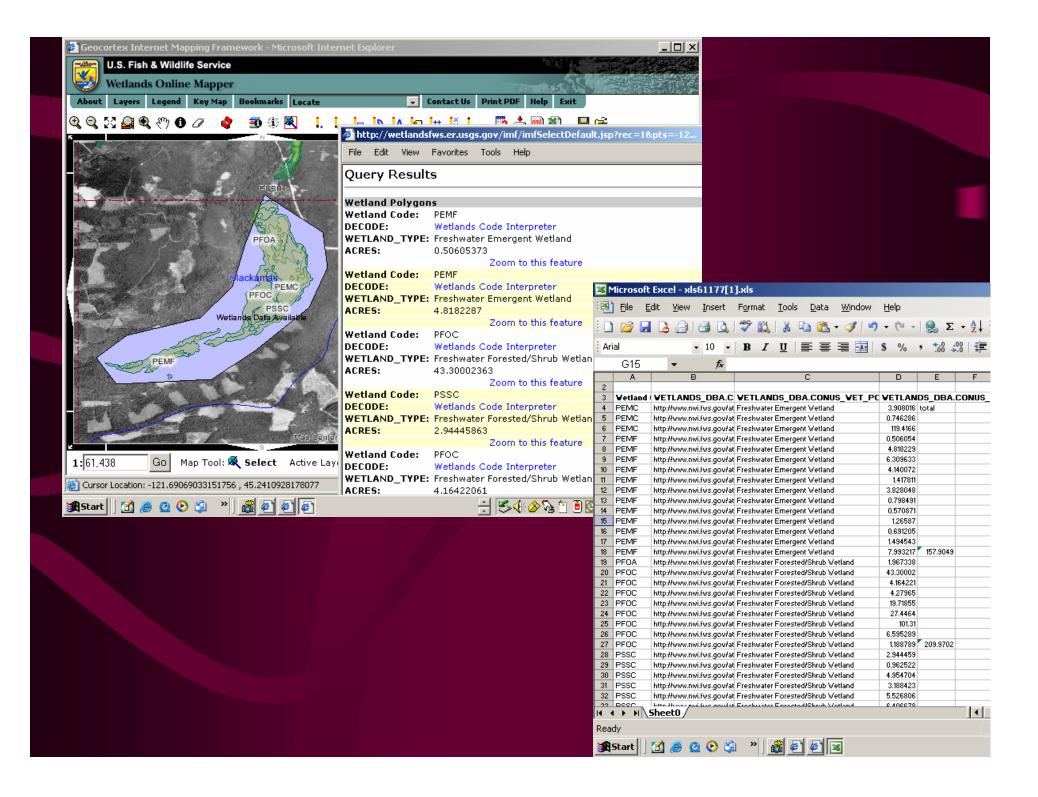






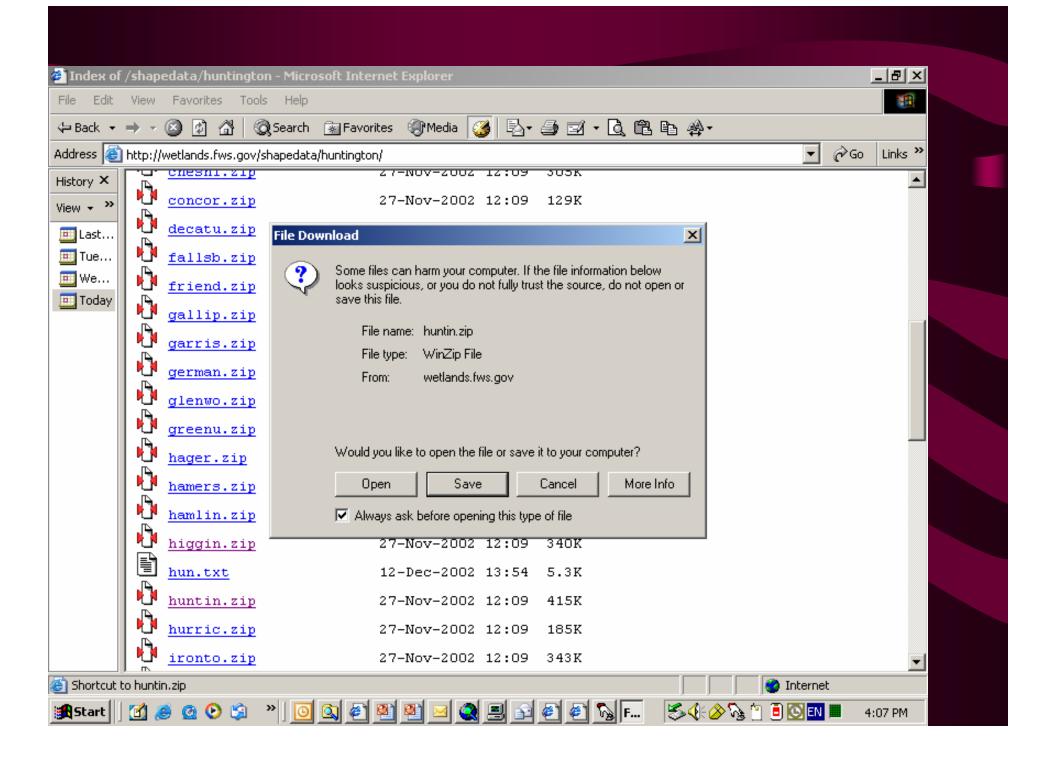


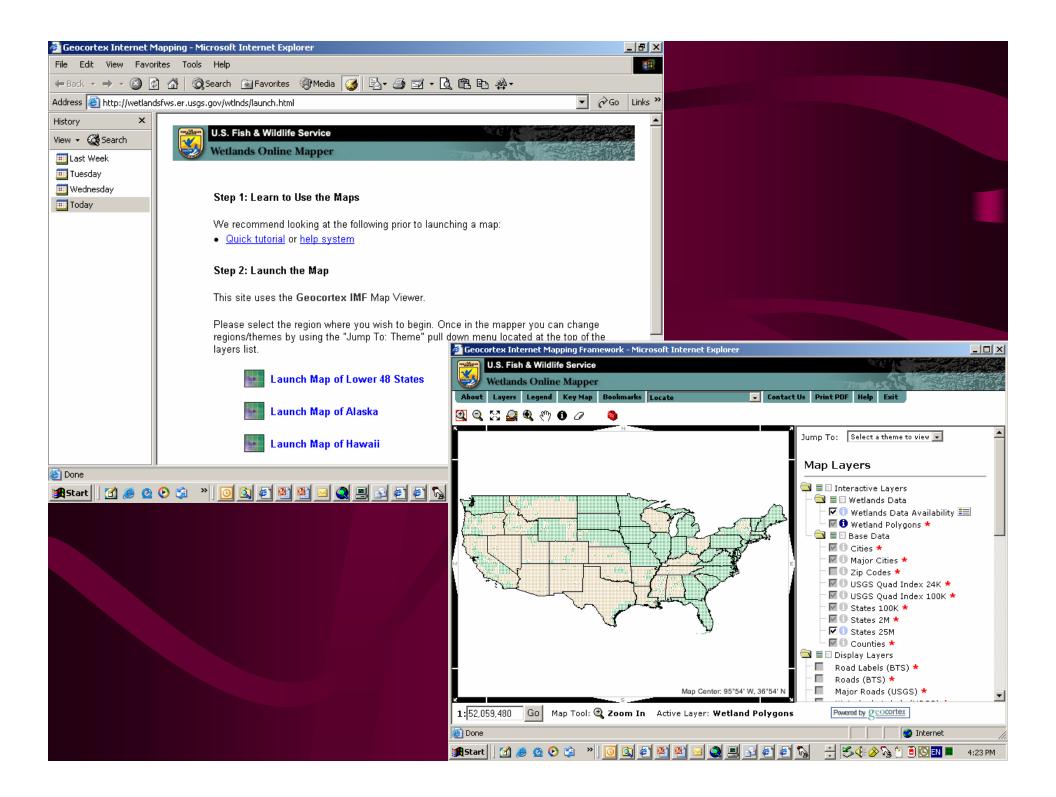




# Downloading GIS data

🖉 Download NWI Data - Microsoft Internet Explorer 📃 🖪 🔀												
File Edit	View Favorites Tools Help											
🗘 🗧 🗧	🔿 🔻 🙆 😰 🐴 🛛 🥘 Search 🛛 📷 F	Favorites 🛞 Media 🎯	B- 2 2 - C	\ ® • ₽ ₽ -								
Address 🙆 http://wetlands.fws.gov/downloads.htm												
History × Wetlands Data												
View 👻 🎽												
🔟 Last	Don't have GIS software?											
🔟 Tue 🔟 We	View and print custom NWI maps online DOWNLOAD DIGITAL WETLANDS DATA (GIS software needed to view maps)											
Today		(GIS SOILWARE NEE		aps)								
	How do I download data? Users will be able to download one map file or one zipped 1:250,000 map folder (includes all available data, up to 128	Shapedata	UTM NAD83	single quads or 1:250,000 zipped file folders	These files are in UTM projection, NAD83 (inclu projected NAD27 data ar "updated" NAD83 data).							
	map files) at a time. Select a data file or folder, then click the right mouse button to use the copy option.	Personal Geodatabases	UTM NAD83	geodatabases	Updated NWI geodataba or new digital data for wh there are no NWI hardco maps. Examples availab							
	What data have been recently added? Search the list of updated data (NAD 83)	Updated ARC Data	UTM NAD83	single quads or 1:250,000 zipped file folders	Newer and updated ARC data without correspondi copy maps.							
	plus scanned digital data from hard-copy (NAD 27) wetland maps.	ARC Data	UTM NAD27	single quads or 1:250,000 zipped file folders	NWI ARC Export data (.) files for older quads whei copy maps were produce							
	How do I find the folder containing the map I need?	Riparian/Wetland	UTM NAD83	single quads or	▼ ►							
٢					o Internet							
🛃 Start	🖸 🥭 🙆 📀 🛸 👋 💽 🔍	e) 🖭 🖭 🖂 🧕	🗈 🖲 🖉 🇞	S 🕀 🔊	. 📋 🗐 💽 EN 📕 4:04 PM							





BOPERATIONS AND MA	INTENANCE BUSINESS IN	FORMATION L	INK				
Action Edit Query Re	cord Eield Help Wind	low					
🔒 📭	월 🗞 🕴 🔹 🕨	н ∓	🗙 ?				
ROJECT SITE WETI	LAND CLASSIFICATIONS				Wetland Systems 🔣		00000000000 ×
Project Site				Fiscal Year	Find <mark>%</mark>		
POTOMAC RIVER AT AL	.EXANDRIA			2005	System Name	0.	stem Definition
Project Fee-Owned Area					Estuarine		eepwater tidal h
21000					Lacustrine		cludes wetlands
					Marine		onsists of the or
11	SSIFICATION INFORMATION ON OF WETLANDS AND DEE						
System	Sub-System	Class			Find	ок	Cancel
Riverine	Intermittent	Streambed					
Lacustrine	Littoral	Unconsolidate	d Bottom		8000		
Palustrine	NO SUB-SYSTEM	Emergent Wet	land		150		
Palustrine	NO SUB-SYSTEM	Forested Wetl	and		80		
						-	
				Upland Acre	s 0		
htere le te		Total Uninver	ntoried Pro	ject Fee-Owned Are		_	
More Info			1.011041110	,001100-011104140	~ [1770	_	
	_	_	_	_	_		
Choices in list 5						A. (3) (3)	
🏽 🛃 Start 🛛 🚮 🍰 🙆	🕑 😂 👘 🛄 🛄	e <u>e</u> e,	<u> 2</u>	BPPP	_}	\$ 🗋 🗖 🙆	EN 📃 🖂 4:54 PM

#### Wetlands Accounting for the Lake

• The conservation pool should be identified as appropriate Lacustrine or Palustrine classification.

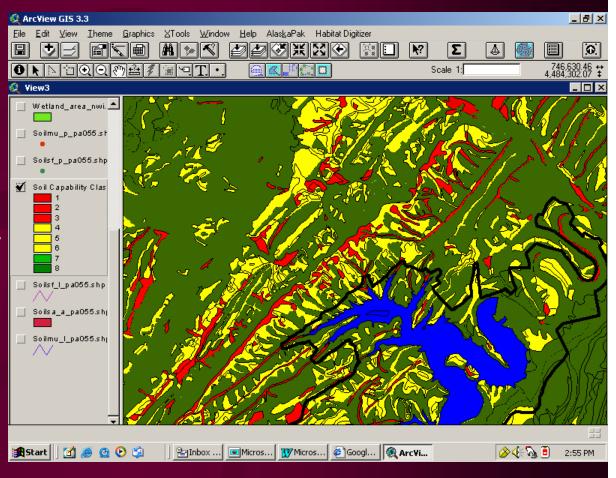
#### Level One Inventory

#### Project Site Land (Soils) Capability Classes



# NRCS soils - land capability classes.

 Existing maps for most projects using SURGO data (Now Soil Data Mart) can be evaluated to give acreage within a project boundary for soil classes.



#### Soil Data Mart

http://soildatamart.nrcs.usda.gov/ includes over 2000 soil surveys with spatial and tabular information, and another 800 plus soil surveys with tabular (soil attribute) data only.

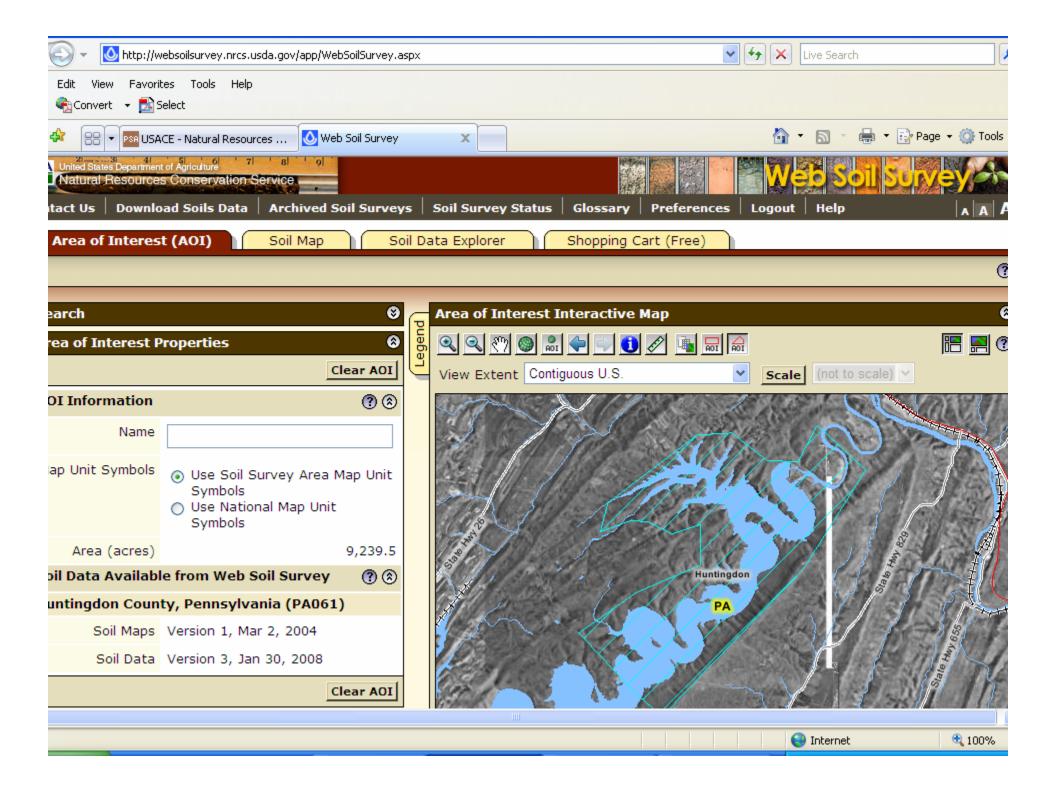
File Edit		Tools Help			
🕀 Back 🔻	⇒ • 🛞 🙆 🖆	} 🛛 🕄 Search 🔹	Favorites 🛞 Media 🎯 🖏 🚽 🗃 🖻	ा-∟् Ёि вे ∯-	
Address 🙆	http://soildatamart.	nrcs.usda.gov/Count	:y.aspx?State=PA		i∂Go Li
History X	Template Databa	ases		LUYUN/ RE	yister neij
View • »	Plea	ase select a county	or parish with at least one survey area	a:	_
🔟 Last		County Code	County Name	Available Survey Areas	
Tue		PA001	Adams	1	1
_		PA003	Allegheny	1	1
🛄 We		PA005	Armstrong	1	
🔟 Today		PA007	Beaver	1	
		PA009	Bedford	1	
		PA011	Berks	1	1
		PA013	Blair	1	
		PA015	Bradford	1	
		PA017	Bucks	1	
		PA019	Butler	1	
		PA021	Cambria	1	
		PA023	Cameron	1	
		PA025	Carbon	1	
		PA027	Centre	1	
		PA029	Chester	1	
		PA031	Clarion	1	
		PA033	Clearfield	1	
		DANRS	Clipton	1	1
			Select Survey Area		
			Select State		
	4				
🔄 Done					ot

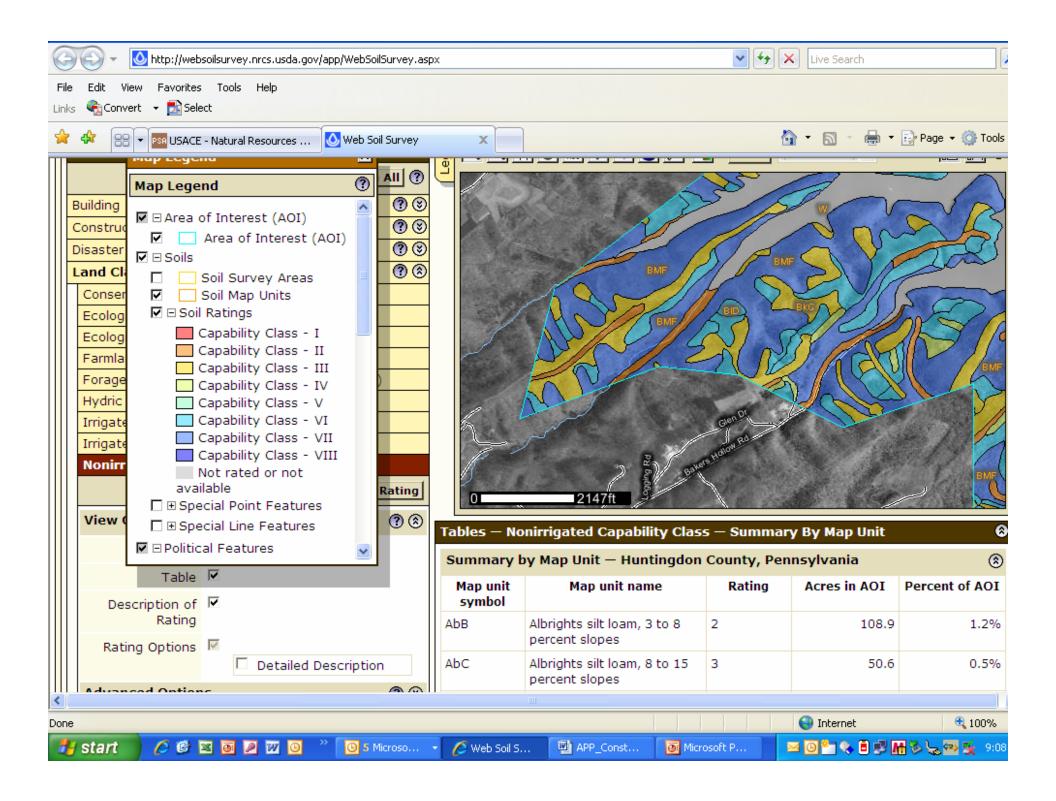
🎒 Soil Da	ta Mart	- Dov	wnload	Soil Surv	vey Area D	ata Mi	icrosof	t Internet	Explo	rer						_ 8 ×
File Edit	View	Fav	/orites	Tools	Help											<b>11</b>
🕀 Back 🤜	• • •	8	1	}   @ <b>.</b> 5e	earch 🛛 😹 F	avorites	(The second seco	edia 🧭	₽.	🥼 🖬 - 🖪	ê h	₩.				
Address	) http://	/soilda	atamart.	nrcs.usda	.gov/Downle	ad.aspx?	Survey:	=OR610&Us	eState	=OR				•	∂Go	Links »
History × View + »				se select ial Versio		-				( Survey Area V	ersion 1	_		-		<b>_</b>
Last			0	) Tabulai	Data Only	, ет,		and Spatia ata	al (	🔿 Spatial Data (	Only	-	late Data Only	base		
100 Tue			Plea	se select	: a spatial	format:	F	Please sele	etac	oordinate syster	m:	Rese	et Default			
Today				/iew Shap		•	7 F			hern Hemisphere (					Ī	
			Diaa		: a templat		(	-tion - Di			1.1	Clear	Selection	1	1	
				Se select				mplate Di	8 Ver	Templat	e DB N	ame	Size	1	1	
				OR		s 2000		30 - 5		soildb_OR_200	-		2.3M			
			F	OR		s 2000		30 - 5		soildb_OR_200			1.9M			
				OR	Acce	ss 97		30 - 5		soildb_OR_97_0			1.4M	•		
	Description:       This template includes the following locally developed reports:         - Map unit descriptions         - Land Capability Classification         - Forest Ecological Site or Plant Association with understory plant species         - Forest Productivity with site index base age         - Prime and Important Farmland															
						Su	ıbmit F	Request		See Disclaim	ner					
			Sele	ct Surve	y Area	Vi	iew Me	etadata		Generate Rep	orts		Subscrib	е		•
ど Done													ıI 📀	nterne	t	
<b>Start</b>	] 🚮 🤞	9	2 🕑	🤹 »	0	۲ 🖭		🧕 🧟 🖻	J 😰	<b>e</b>	N	\$ <b>4:0</b> 7	è 🗋 🛢 🛛	S EN	📕 з	:42 PM

## On- line Assistance

- Gateway Link to document.
- Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/ WebSoilSurvey.aspx

🧭 Web Soil Survey - Windows Internet Explorer		- 7 🛛
http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx	💌 🐓 🗙 Live Search	P -
File Edit View Favorites Tools Help		
Links 🍓 Convert 👻 🔂 Select		
🚖 🏟 🖶 🔻 🎫 USACE - Natural Resources 🙆 Web Soil Survey 🛛 🗙	🟠 🝷 🔝 🕤 🖶 🔹 🔂 Page	e 🕶 🙆 Tools 👻 🎽
USDA United States Department of Agriculture 7 8 9 Natural Resources Conservation Service		<mark>ey/An</mark> î
Contact Us   Download Soils Data   Archived Soil Surveys   Soil Survey Status   Glossary   Pro	eferences Logout Help	
Area of Interest (AOI) Soil Map Soil Data Explorer Shopping Cart (	(Free)	
		()
Search 🛛 😌 👝 Area of Interest Interactive Map	)	8
Quick Navigation		i 🔁 🔜 🕐
Navigate By (Second second	Scale (not to scale)	
Address		35.325009
State and County		1 les
Soil Survey Area		- 🌌
Latitude and Longitude		Sector 1
PLSS (Section, Township, Range)	Mer Mer	
Bureau of Land Management	ND MN STAT	•
Department of Defense	SD SWI MIA NYLNH	
National Park Service	NE IA PA NJ	
Hydrologic Unit		
	KS MO KY	
AZ NM	OK	
	MS AL GAT	
	TX	
	EL .	~
Done	😜 Internet	🔍 100% 🔹 🏢





OPERATIONS AND MAINTENANCE BUSINESS INFORMATION LINK			
Action Edit Query Record Field Help Window			_
<b>□ ■ ■ <sup>©</sup> <sup>©</sup> <sup>©</sup> <sup>©</sup> <sup>©</sup> <sup>©</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup> <sup>™</sup></b>			
ROJECT SITE LAND (SOILS) CAPABILITY CLASSES CONSISTING CONSISTING CONSISTING CONSISTING CONSISTING CONSISTING CONSISTENCY CONS			∶ ऱ ि ×
Project Site Fiscal Year			
IL POTOMAC RIVER AT ALEXANDRIA		CLASSIFICATION RIVED FROM THE	
Project Fee-Owned NATURAL R Area SERVICE **	SOURC	CES CONSERVATION	
21000			
Class Land Capability Class Definition		Class Acreage	
1 Soils in this class have few limitations that restrict their use. The soils are deep, well drained and the land is	ne	50	
2 Soils in this class have some limitations that reduce the choice of plants or require moderate conservation p	act	20	
3 Soils in this class have severe limitations that reduce the choice of plants or require special conservation pr	acti	35	
4 Soils in this class can be used for cultivation but there are very severe limitations on the choice of crops. The	ies	60	
5 Soils in class V to VIII are generally not suited to cultivation. Soils in class are generally subject to frequent :	tre	50	
6 Soils in this class have severe limitations that restrict their use to pasture or range, woodland or wildlife. Lim	nita	40	
7 Soils in this class are very severe which restrict use to grazing, woodland or wildlife. Physical limitations s		10	
8 Soils in this class should not be used for any kind of commercial plant production. Use is restricted recreati		50	
Level One Conservation P			
More Info		3003	
Fiscal Year of the Land Canability information	20	á 🖹 🕅 💷 🚥	4.50.511
🏦 Start 🛛 🚰 🙆 🕑 🤤 👋 📓 🖉 🖉 🖉 🦉 💮 🕂 ≶ 🌾	100 (N)	; 📋 อ 💽 <u>en 💶 🖂</u>	4:59 PM

#### Level One Inventory

# Project Site Special Status Species Page

### **Special Status Species**

- Sources
  - FWS, state fish/wildlife agencies, natural resource heritage, nature conservancy.
- Recovery plans and requirements are mostly online.
- Local surveys, credible interviews and observations.

## **Special Status Species**

- Potential species vs. Confirmed
  - Goal is to have a list of species that include:
    - Those that are confirmed on the project through surveys or observation and estimates of occurrence such as abundant, rare.
    - Identify potential species that due to know populations and habitat composition are reasonable believed to be on the project but have not been confirmed through surveys or observation.
- Changes forthcoming to provide credit for having the list.
- Future changes to species list expected.

BOPERATIONS AND MAINTENANCE BUSINESS INF	ORMATIO	N LINK					
Action Edit Query Record Eield Help Wind	ow						
🔒 🛝 🧐 🖓 🖌 🗸 🕨	н न	F 🗙 ?					
🙀 PROJECT SITE SPECIAL STATUS SPECIES 🔅							×ъ×
Project Site		Fiscal `	/ear				
POTOMAC RIVER AT ALEXANDRIA		2005					
Federal List O State List	Fed/	Inventoried	Biological Opinion	Final Recovery	Recovery Action		
Species		Occurrence	Issued	Requirements	Designated		
Indian Knob mountain balm	FED	Potential 🚽				<b>A</b>	
Alani	FED	Potential 👻					
Black-spored quillwort	FED	Potential					
Rocksnail, painted	FED	Potential				3	
						5	
Species Final Recovery Plan	Nore Info						
Fiscal year for Special Status Species information							
🏽 🛃 🛃 🙆 🙆 😳 🎲 👋 🔮 🚰	<u>s e é</u>				(F 🔗 Và 🗋	🖹 💽 EN 📕 🖂	5:01 PM

#### Level One Inventory

# Assessing Vegetation Conditions

# Other agencies

#### FWS Refuge System



Conserve, Manage, and Where Appropriate, Restore Fish, Wildlife, and Plant Resources and Their Habitats to Fulfill Refuge Purposes, Trust Resource Responsibilities, and Biological Diversity/Integrity

#### I. Habitat Condition Assessments

One common performance measure running throughout DOI, FWS, and the Refuge System, is the overall condition of habitat acres and riparian miles. The data your refuge entered for these questions in 2005 became a baseline by which performance will be measured in coming years. Last year you set targets in RAPP for how you expected the acres/miles in these habitat condition classes to change in the current year. You can review those targets either in last year's workbook,looking online in Enterprise Planner, or requesting a report from your RAPP Coordinator. Now you must reassess whether you met those targets.

The following tables are provided to help you do the assessment, and make sure all your numbers add up correctly. The numbers in the top-left corner of each box corresponds to questions in the online RAPP. You must classify all land owned or managed by the Service into 2 ways — first by habitat type, then by habitat condition. The habitat types are:

Wetland – Includes all freshwater, estuarine and saltwater wetlands, but not large (i.e. greater than 100 acres) bodies of open water. If you use the National Wetland Inventory classifications, include all classes except open water, marine and reef. The online RAPP Guidance Document has a link to NWI classification.

**Open Water** – Includes all freshwater, estuarine, and salt water bodies, such as ponds, lakes, rivers, estuaries, oceans, bays, and inlets. Include the National Wetland Inventory classes for open water, marine and reef.

**Upland** – All land not counted as wetland or open water may be counted as uplands. Built-up areas, including parking lots, facilities, and roads may be counted within upland habitat if there is significant acreage and to reach a total that roughly equates to the total refuge acres as reported by Realty.

The condition classes are:

Class 1A – No Management Needed – Acres of pristine/undisturbed habitat, or simply acres that don't need active management. Examples include wilderness areas and much of the land in Alaska. In Alaska, refuges should count acres in Class 1A where wildland fire is used as a management tool.

Class 1B – Receiving Needed Management - Acres which receive needed level of active management. Examples include acres farmed, grazed, burned, thinned, flooded, etc., sufficient to maintain intended habitat function.

Class 2 – Management Needed, But Deferred – Acres which need active management, but are not receiving it due of lack of funds. Examples include moist soil impoundments not receiving needed disking, grasslands not receiving prescribed grazing, forested areas not receiving needed thinning, etc.

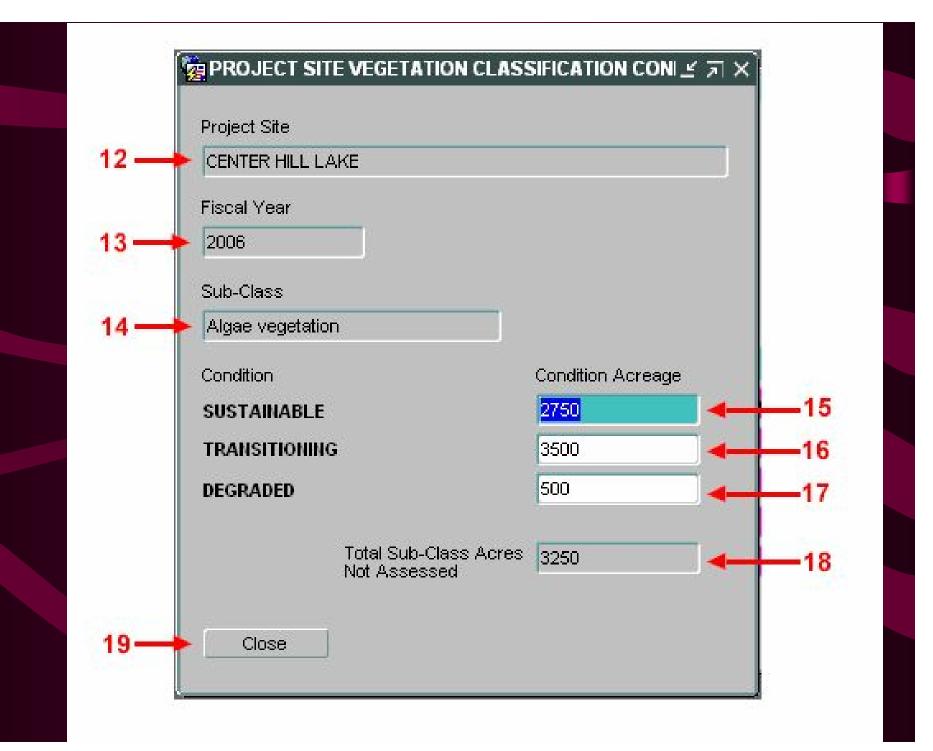
Class 3 – Restoration Needed, But Deferred – Acres which need restoration, but are not receiving it due to lack of funds. Compared to Class 2 acres, these acres need more drastic work such as restoring contour, restoring hydrology, re-planting vegetation, or wholesale removal of invasive species.

**Riparian Mile Assessment** – DOI requires a separate measure for riparian habitat condition, which is measured in miles along the centerline of the stream channel. Previously, it was optional to enter figures for this assessment; however, refuges that regularly work with riparian habitat were encouraged to do so. If your refuge entered figures in the past, you should update them this year. Riparian is usually considered vegetation adjacent to, or contiguous with perennially/intermittent

# Definitions

- **Sustainable** Meeting desired state. The acreage is not significantly impacted by any factors that can be managed and does not require intensive management. The acreage also meets operational goals and objectives set out in project OMP or other applicable management document. These acres are considered healthy and sustainable for future generations. Only minor management practices may be required to maintain the health.
- **Transitioning** Managed to meet desired goals. The acreage is impacted by human or other environmental factors that require management of the acreage to meet goals and objectives outlined in the project OMP or other applicable management document.
- **Degraded** Does not meet desired goals. The acreage is significantly impacted by human or other environmental factors that prevent the acreage from meeting desired goals outlined in the project OMP or other management documents. The acreage is not considered healthy. Intense management may be required to meet desired goals.
- Not Assessed The acreage has not been assessed against operational goals and objectives and thus a condition rating cannot be determined.

BOPERATIONS AND MAINT	TENANCE BUSINESS INFOR	MATION LINK			_ [	IX
Action Edit Query Recor	rd Eield Help Window					
🔒 🛝 🚱 😭	😼 K 🔹 🕨	I ∓ 🛪 ? 👘				
noject site vegeta	TION CLASSIFICATION					′ ন ১
Project Site POTOMAC RIVER AT ALE) Project Fee-Owned Area		Fiscal Ye 2006	** THE FOLLOWING CL (EXCLUDING CONDITIONAL VEGETATIONAL V	NS) IS DERIVED FI	ROM THE	
21000				Sub-Class		
Division	Order	Class	Sub-Class	Acreage		
VEGETATED	Shrub Dominated	Shrubland (Scrub)	Evergreen shrubland (scrub)	200	Condition	)e
VEGETATED	Herb Dominated	Herbaceous Vegetation	Annual graminoid or forb vegetation	100	Condition	J
VEGETATED	Tree Dominated	Closed Tree Canopy	Deciduous closed tree canopy	1200	Condition	J 🔬
VEGETATED	Tree Dominated	Closed Tree Canopy	Evergreen forest	650	Condition	j R
VEGETATED	Shrub Dominated	Shrubland (Scrub)	Deciduous shrubland (scrub)	480	Condition	J
VEGETATED	Herb Dominated	Herbaceous Vegetation	Perennial forb vegetation	500	Condition	Je
			Total Classified Acreage	3130		
More Info			Total Unclassified Acreage	17870		
			-			
Fiscal Year for the Venetatio						
🏽 🛃 Start 🛛 🚮 🥭 🙆 🕑	) 😂 👋 🖸 🦉	💆 💆 💆 🗒 🖻	₽ <b>₽₽</b> ₽÷\$∢⊗₽	\$ 🗋 🕘 🚱 <b>EN</b> 🗖	4:58	PM



#### Methods of Assessment

- No mandatory approach.
- Projects assessment based on the definitions.
- Best professional judgment using information available.
- Additional Tools Nature Serve
  - Test Run

C Inventori	es - Windows Internet Explorer						
<b>GO</b> -	http://corpslakes.usace.army.mil/employees/inventory/LevelOne/inventories.cf	m 🖌 🛃 Liv	ve Search				
	view Favorites Tools Help						
Links 🍖 🗸			»				
	9 Inventories		🔊 🔹 🖶 🔻 🔂 Page 👻 🏠 Tools 👻 🔴				
of Engin	eers ®	to the fu	ture				
	Home Visitors Lake Discovery Recreation News/Events People Forums Learning GE						
Level One Inventories Level one inventories are of a general nature and will be conducted to provide baseline information. This data will be used to support the resource objectives and land use classifications. Level one inventories shall be conducted in sufficient detail to determine acreage of dominant vegetation types, soil and land use capabilities, wetland acreage and the presence of special status species occurring on project lands and waters. The level one inventory shall in most cases be accomplished using available existing information that is readily available from a variety of sources. In 2003, the level one inventory became a budget based performance measure and standards were developed. Input screens for data results have been provided in OMBIL and reporting on inventory results are required each year to meet performance tracked by the Office of Management and Budget (OMB).  Policy & Procedures OMBIL Website OMBIL Website							
	Policy & Procedures     OMBIL Website						
	Statement of Need	Assessing Conditions					
	News / Current Issues	Performance Measures	Performance Measures				
	References	Level One Inventory Working Group					
	Level One Inventory Elements	Lessons Learned					
	Tools	Soil Capability					
			<b>•</b>				
			ocal intranet 🔍 100% 🔻 🛒				
🦺 start	🥒 🥔 🖾 🥶 🖉 🔟 🗿 🦈 🔟 Inbox - Micro 📄 3 Window	vs 🝷 💽 Microsoft Po 🥻 Inventories	🔟 🖹 🗞 🕅 📌 🏧 🇞 🆕 🌿 10:24 AM				

# **Example Inventory**

CLevel (	One Inventories: Lessons Learned - Windows Internet Explorer		- ð X
GO	Image: http://corpslakes.usace.army.mil/employees/lessons.cfm?Id=inventory-level1	🖌 🛃 🔀 Live Search	
File Edit	it View Favorites Tools Help		
Links 🏟			
*	Evel One Inventories: Lessons Learned	🟠 🔹 🗟 🔹 🖶 🕈 🔂 Page 🕶 🎯	Tools 🔹 🎇
	News/Events People Forums Learning GETS Tools New Postings S	to the future itewardship Partners & Submit Index/Search ?	
00	Lessons Learned	Home     Policy & Procedure	
DT10	Click for Disclaimer <ul> <li>Submit a Lessons Learned</li> </ul>	<ul> <li><u>Policy &amp; Procedures</u></li> <li>OMBIL Website</li> <li><u>Statement of Need</u></li> <li><u>Assessing Conditions</u></li> <li><u>News / Current Issues</u></li> </ul>	III.
0	Example of completed level one inventory document from Raystown Lake completed		
all.	Raystown Lake USACE Project Natural Resource Management Level One Natural Resource Written by Devin DeCoeur SCA Intern	ce Inventories	nking
Lessbycemtories	<ul> <li>Protocols of how to collect soils, vegetation and wetland information</li> <li>Procedures for obtaining and processing information for OMBIL Project Site Land (Soils) Car</li> <li>OMBIL Wetlands Inventory Procedure for GIS</li> <li>Vegetation Inventory for OMBIL</li> </ul>	<u>Level One Inventory Elen</u> <u>Lessons Learned</u> <u>Tools</u> <u>Soil Capability</u>	<u>nents</u>

### Summary

- Various tools available.
- Numerous sources of information.
- Account for conservation pool acreage.
- Use GATEWAY links and examples.
- Condition is Important!!



# Inventory and Classification

### **Questions and Answers?**