




---

# Using MnRAM 3.4 Access Database

---

1



---

## Contents of this slideshow

- Database information
  - Downloading MnRAM software
  - Getting started entering data
  - Overview of reports

---

2

# Downloading MnRAM 3.4

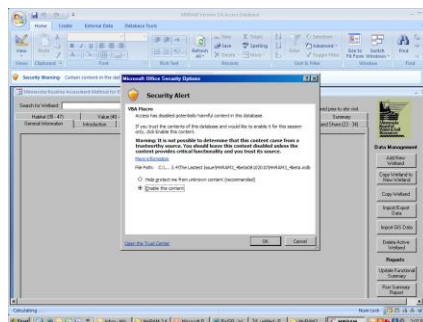


<Save> the file to your hard drive.

3

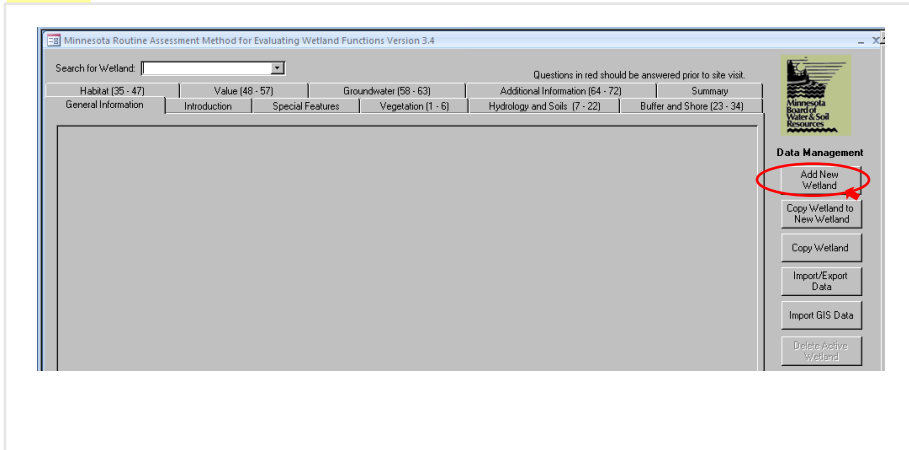
# Opening MnRAM 3.4

- When you first open the database, there is a Security Alert. This is a Microsoft feature that cannot be removed.
- Click “Enable this content” to continue.



4

# Opening the Database

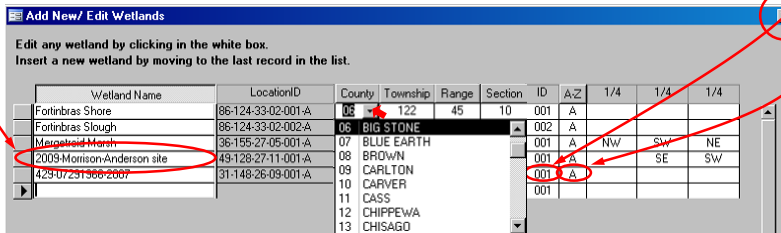


5

# Adding a New Wetland

- Wetland Name can be any combination of text +/- numeric id.
- LocationID will fill in automatically
- The **County** dropdown menu is required for a cluster (see **County** dropdown menu)
- Letter indicates first (+) or subsequent assessment visits.

Press <X> to close. Your data is saved.



6

# Using the Wetland ID Search

Minnesota Routine Assessment Method for Evaluating Wetland Functions Version 3.3

Search for Wetland: Vantneuf shore Active Wetland: Vantneuf shore Questions in red should be answered prior to site visit.

Habitat (35 - 4) Vantneuf H basin Groundwater (58 - 63) Additional Information (64 - 72) Summary  
General Information Vantneuf shore Special Features Vegetation (1 - 6) Hydrology and Soils (7 - 22) Buffer and Shore (23 - 34)  
General Information Vantneuf slope  
General Information Vantneuf slope pond

Project Name: Shoreline Test Projects County: 39 LAKE OF THE WOODS

City: [ ] Watershed: Lake of the Woods  
2nd City: [ ] Subwatershed: [ ]  
Township: [ ] Watershed #: 80 Bank Service Area: 2  
Site Location: [ ] Shoreland Zone: [ ]

**Enter Wetland Size Data**

Estimated Current Wetland Size	0.00	acres
Estimated Original Wetland Size	25.00	acres
Estimated Restorable Wetland	24.99	acres
Percentage Area Drained/Altered	0.93	

**GPS**

Northing	0
Easting	0
Elevation	0

GPS File Name: [ ]

**Data Management**

- Add New Wetland
- Copy Wetland to New Wetland
- Copy Wetland
- Import/Export Data
- Import GIS Data

Pick your site from this list to start adding data.

7

# Project Name

Report Filter Options

Report Filter Options:

Select Filter

Select a project name: Shoreline Test Projects

- OR - Unutilized Test Projects

Select a city name: [ ]

- OR - [ ]

Select a SubWaterShed: [ ]

Select Complete Option

Complete

Not Yet Complete

Both

Select Data Form

Text  Numeric

Select a report to preview

Functional Assessment Summary  Wetland Community Summary

Preview Exit Done

Minnesota Routine Assessment Method for Evaluating Wetland Functions Version 3.3

Search for Wetland: Vantdece shore Active Wetland: Vantdece shore Questions in red

Habitat (35 - 47) Value (48 - 57) Groundwater (58 - 63) Additional Information (64 - 72)  
General Information Introduction Special Features Vegetation (1 - 6) Hydrology and Soils (7 - 22)

Project Name: Shoreline Test Projects County: 39 LAKE OF THE WOODS

City: [ ] Watershed: Lake of the Woods  
2nd City: [ ] Subwatershed: [ ]  
Township: [ ] Watershed #: 80 Bank Service Area: 2  
Site Location: [ ] Shoreland Zone: [ ]

Instead of making several copies of the database for each project, assign unique Project Names

8

# Wetland Size

Existing wetland area.

Estimated original size of the total wetland if effectively drained or filled areas were restored (not including any buffer area).

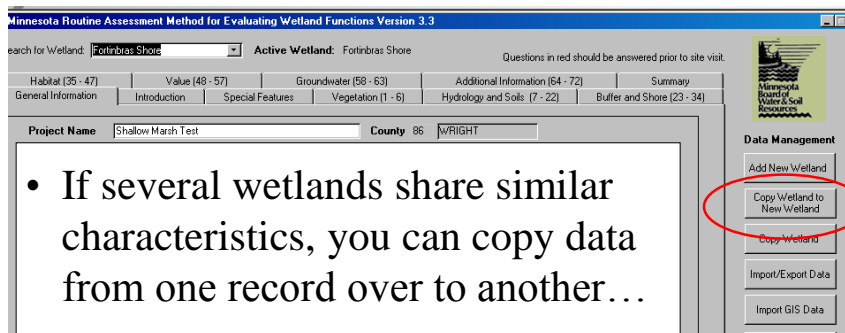
Restorable area and % drained/alterd is calculated automatically in the database.

Enter Wetland Size Data		
Estimated Current Wetland Size	0.00	acres
Estimated Original Wetland Size	25.00	acres
Estimated Restorable Wetland	24.99	acres
Percentage Area Drained/Altered	0.99	

Successful creation projects will show negative restorable acreage, upon completion.

9

## Adding a New Wetland ID Using <Copy Wetland >



- If several wetlands share similar characteristics, you can copy data from one record over to another...

10

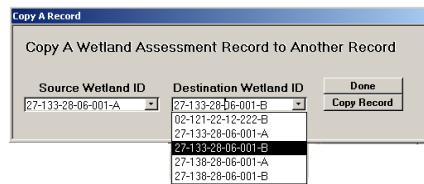
# Copy Wetland: Two Options



- If you are entering an additional wetland “on the fly,” use “Copy to New Wetland” to name the new wetland now.



- If you entered all your wetland names ahead of time, use the simple “Copy Wetland” option.



# Copy wetland record, cont.

Reminder: <Copy to New Wetland> creates an identical location data record. Use <Copy to Add/Edit> to change data.

Even similar wetlands can differ in small ways—be sure to run through all the questions for every site!

# Wetland photos



Habitat [35 - 47]	Value [48 - 57]	Groundwater [58 - 63]	Additional Information [64 - 72]		
General Information	Introduction	Special Features	Vegetation (1 - 6)	Hydrology and Soils (7 - 22)	Buffer a

<b>Project Name</b>	Continuity Konstruktion	<b>County</b>	86 WRIGHT
City	<input type="text"/>	Watershed	North Fork Crow
2nd City	<input type="text"/>	Subwatershed	<input type="text"/>
Township	<input type="text"/>	Watershed #	18
Site Location	<input type="text"/>	Shoreland Zone	Bank Service Area 7

Describe the purpose of this assessment	Field Photo ID	Evaluator	Date Evaluated	<b>Photos</b>
---	----------------	-----------	----------------	---------------

Notes:

If you want to attach a photo, press <Photos> on the General Information tab...

# Wetland photos, cont.



From this window you add, view, or delete photos. Choose the “open folder” icon to browse to a folder with photo files (set up ahead of time).

Add/Edit Photo links for wetland Fortinbras Slough

Wetland Fortinbras Slough Done

Path to Photo

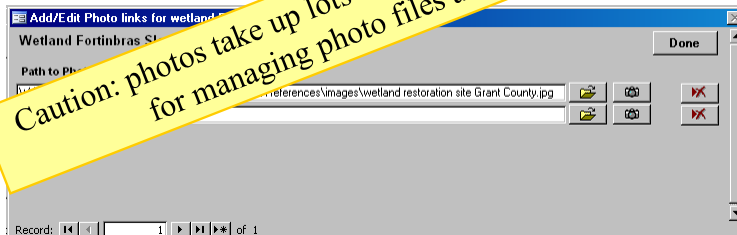
Browse to Photo

Record:   1 of 1

## Wetland photos, cont.

Add photos one at a time. Click the “camera” icon to view the photo. Once the photo is open, double-click the image to add it to the database.

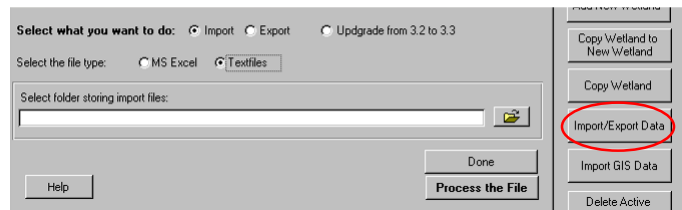
Caution: photos take up lots of disk space! Work out a plan for managing photo files ahead of time.



15

## Import/Export data

- Use this feature to
  - Import data from a previous version of MnRAM
  - Export data to an excel file for custom sorting
  - Compile data from different users into a single copy of the database.

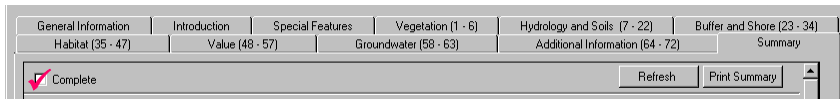


16



## Import/Export data, cont.

Only records that are checked “complete” on the Summary tab will be exported.

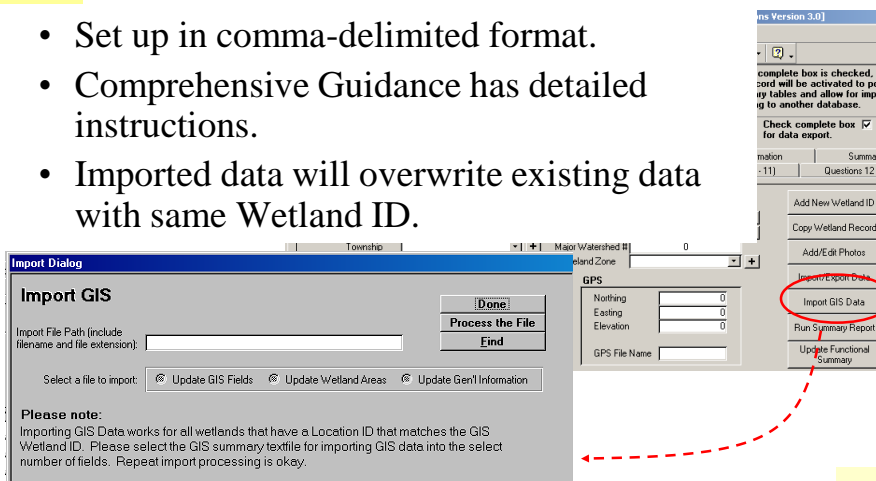


- Importing will overwrite existing wetlands with new data if their Wetland IDs match.
- To import without overwriting, use the <Upgrade from 3.2> option.

17

## Import GIS data

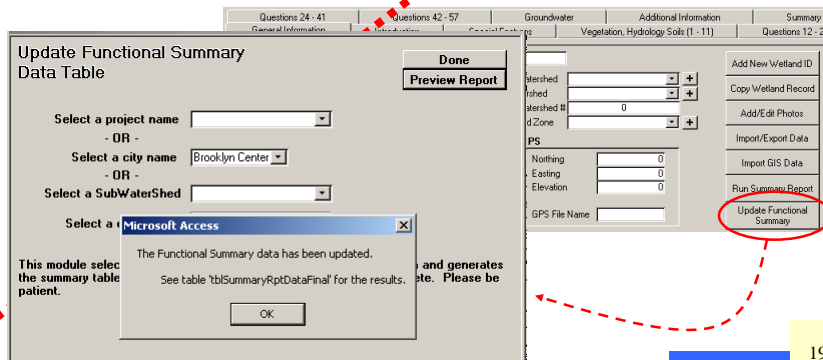
- Set up in comma-delimited format.
- Comprehensive Guidance has detailed instructions.
- Imported data will overwrite existing data with same Wetland ID.



18

# Update functional summary

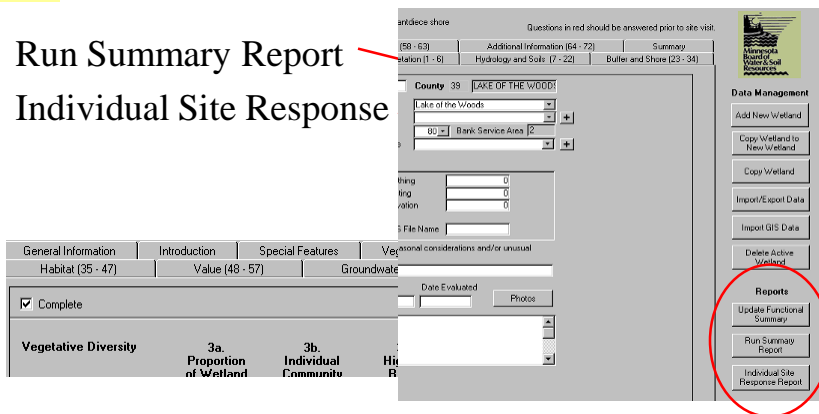
- This option no longer has a function.



19

# Getting Data Out: Reports

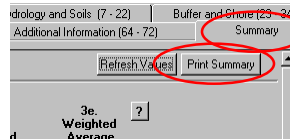
Run Summary Report  
Individual Site Response



20



# Site Summary Report



## Wetland Functional Assessment Summary

Wetland Name	Hydrogeomorphology	Maintenance of Hydrologic Regime	Bank Stabilization/Amelioration	Downstream Water Quality	Maintenance of Wetland Water Quality	Shoreline Protection
Wetland Name	Location: Edge of Riparian Area / Channel	Low	High	Moderate	Low	Low

Wetland Name	Maintenance of Characteristic Wetland Hydrology	Maintenance of Characteristic Biological Features	Associated Resource Values	Commercial Use	Channel Water Intermittence	Wetland Resource Potential	Wetland Sensitivity to Species and Other Disturbance	Additional Information
Wetland Name	0.23	0.37	0.04	0.32	0.00	0.00	1.00	0.20
Wetland Name	Low	Moderate	Low	Low	Not Applicable	Not Applicable	High	Low

## Wetland Community Summary

Wetland Name	Location	Vegetative Diversity/Integrity						
		Coverd'n Classification	Percent Plant Community	Wetland Proportion	Individual Community Rating	Highest Wetland Rating	Average Wetland Rating	Weighted Average Wetland Rating
Wetland Name	30-161-33-02-002-A	Type 1	Shrub/Herb	50	0.1	1.00	0.40	0.00
		Type 2	Shrub/Herb	30	0.1	1.00	0.40	0.00
		Type 3	Hardwood Swamp		1	1.00	0.40	0.00
						High	Moderate	Not Applicable
				50		1.00	0.40	0.00

~ Denotes incomplete calculation data.

# Data Collection Procedures

Plan ahead to ensure quality data.



## Collect background documentation:

- Site survey, hydrology, topography, aerial photos, soils data
- *Comprehensive Guidance* covers procedures for an inventory, map notation, GIS labeling, managing incoming field data, etc.

- Enter all Wetland IDs
- Answer certain marked questions:
  - Database **red highlighted**
  - Excel fieldsheet *italicized*
  - Text version “~” in left margin

# Entering Data: Getting Started

- Start on the General Information tab.
- Project name and Watershed.
- Some location data is optional.
- Record special notes and purpose of assessment.

(See next slide for screen view and animated highlights)

25

# Entering Data: General Information

General Information | Introduction | Special Features | Vegetation (1 - 6) | Hydrology and Soils (7 - 22)

**Project Name** | Shoreline Test Projects | **County** | 39 LAKE OF THE WOODS

**City** | | **Watershed** | Lake of the Woods

**2nd City** | | **Subwatershed** | |

**Township** | | **Watershed #** | 80 | **Bank Service Area** | 2

**Site Location** | | **Shoreland Zone** | |

**Enter Wetland Size Data**

Estimated Current Wetland Size	0.00	acres
Estimated Original Wetland Size	25.00	acres
Estimated Restorable Wetland	24.99	acres
Percentage Area Drained/Altered	0.99	

**GPS**

Northing	0
Easting	0
Elevation	0

GPS File Name |

Note unusual climatic conditions experienced during this assessment due to seasonal considerations and/or unusual existing hydrologic and climatologic conditions.

Describe the purpose of this assessment | Field Photo ID | Evaluator | Date Evaluated | Photos

Notes: |

26

# Drop-down lists

- Some drop-down lists can be edited.
- Most are restricted, to limit confusing duplicates.
- Report missing choices to the MnRAM coordinator.

Common Group Name	Common Name	Scientific Name
arrowhead, grass-leaved	Grass-leaved arrowhead	Sagittaria graminea ssp. graminea
arrowhead, hooded	Hooded arrowhead	Sagittaria montevidensis ssp. calycina
arrowhead, sessile-fruited	Sessile-fruited arrowhead	Sagittaria rigida
arrowhead, short-beaked	Short-beaked arrowhead	Sagittaria brevirostra
arrowwood, downy	Downy arrowwood	Viburnum rafinesquianum var. affine
arrowwood, downy	Downy arrowwood	Viburnum rafinesquianum var. rafinesquianum
arrowwood, downy	Downy arrowwood	Viburnum rafinesquianum



27

# Entering area data

- Formula calculations **require** area data.
- If the current size is zero, enter 0.0001.

Search for Wetland: Fortinbras Slough Active Wetland: Fortinbras Slough

Habitat (35 - 47)	Value (48 - 57)	Groundwater (58 - 63)	Addition
General Information	Introduction	Special Features	Vegetation (1 - 6) Hydrology

Project Name: Continuity Construction County: 86 WRIGHT

City: \_\_\_\_\_ Watershed: North Fork Crow  
 2nd City: \_\_\_\_\_ Subwatershed: \_\_\_\_\_  
 Township: \_\_\_\_\_ Watershed #: 18 Bank Service Area: \_\_\_\_\_  
 Site Location: \_\_\_\_\_ Shoreland Zone: \_\_\_\_\_

**Enter Wetland Size Data**

Estimated Current Wetland Size	20.00 acres
Estimated Original Wetland Size	40.00 acres
Estimated Restorable Wetland	20.00 acres
Percentage Area Drained/Altered	0.50

**GPS**

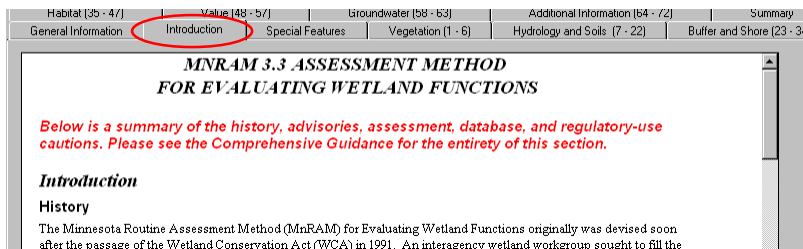
Nothing: 0  
 Easting: 0  
 Elevation: 0  
 GPS File Name: \_\_\_\_\_

Note unusual climatic conditions experienced during this assessment due to seasonal considerations and/or unexisting hydrologic and climatologic conditions:

28

## Introduction tab

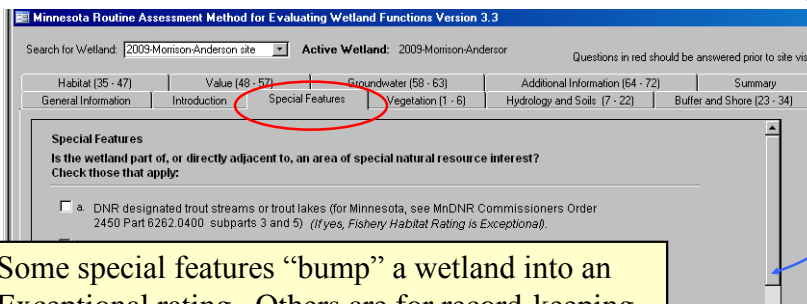
- Background history and purpose of wetland assessment and ranking structure.
- No data entry on this page.



29

## Special Features tab

- Check all that apply.
- Use scroll bar to see lower portion of page:



30

# Special Features, a-f

**Is the wetland part of, or directly adjacent to, an area of special natural resource interest?**

Check those that apply:

- a. \_\_\_ Designated trout streams or trout lakes (see MnDNR Commissioners Order 2450 Part 6262.0400 subparts 3 and 5) (If yes, Fishery Habitat Rating is Exceptional).
- b. \_\_\_ Calcareous fen (Special Status see MN Rule Chapter 7050) (If yes, Vegetative Diversity/Integrity functional rating is Exceptional) Consult MN DNR for regulatory purposes.
- c. \_\_\_ Designated scientific and natural area (If yes, then Aesthetics/Recreation/Education/Cultural functional rating is Exceptional).
- d. \_\_\_ Rare natural community (refer to MnDNR County Biological Survey/Natural Heritage)(If yes, Vegetative Diversity/Integrity is Exceptional, also if question 36 is yes and Wildlife Habitat functional rating is Exceptional);
- e. \_\_\_ High priority wetland, environmentally sensitive area or environmental corridor identified in a local water management plan,
- f. \_\_\_ Public park, forest, trail or recreation area.

# Special Features, g-m

- g. State or Federal fish and wildlife refuges and fish and wildlife management areas, and waterfowl protection areas (If yes, then Wildlife and/or Fish Habitat functional rating is Exceptional).
- h. Archeological or historic site as designated by the State Historic Preservation Office; (If yes, then Aesthetics/Recreation/Education/Cultural functional rating is Exceptional)
- i. Plant species: naturally occurring, persistent populations that are:<sup>3</sup>
  - Federally listed:  Endangered  Threatened
  - State listed:  Endangered  Threatened (See Minn. Rule Ch. 8420.0548, Subp.2)
  - State listed:  Species of special concern

List of Species:

*If present, then the Vegetative Diversity/Integrity functional rating is Exceptional.*
- j. Wildlife species in or using the wetland are:<sup>4</sup>
  - Federally listed:  Endangered  Threatened
  - State listed:  Endangered  Threatened (See Minn. Rule Ch. 8420.0548, Subp.2)
  - State listed:  Species of special concern

List of Species:

*If present, then the Wildlife Habitat functional rating is Exceptional.*
- k. Local Shoreland Management Plan area.
- l. State Coastal Zone or Shoreland Management Plan area.
- m. Shoreland area identified in a zoning ordinance (generally within 1000 feet from a water basin and 300 feet



# #1: Identify Plant Communities

- Up to five communities may be listed.
- Each community's contribution to the whole wetland is counted as a percentage of 100%.
- Communities less than 10% are not counted\*.

Plant Community	%	Cowardin	Circular39	3. Veg Index
Shrub Carr	60	R2UBGx	Type 1	Low
Hardwood Swamp	20	L1UBGx	Type 1	High
Fresh (Wet) Meadow	20	FEMC	Type 2	Medium
* Fresh (Wet) Meadow	15B			
Shallow, Open Water Communities	16A			
Seasonally Flooded Basin	16B			
2. Floodplain Forest	3A			
Hardwood Swamp	3B			
Coniferous Bog	4A			
Coniferous Swamp	4B			
Open Bog	7A			

\*With one exception (see next slide)

33

# #3: Rate Plant Communities

- Rate quality of each community
  1. Floodplain forest, 3B – High
  2. Sedge meadow, 13A – High
  3. Shrub-carr, 8B – High
  4. Shallow, open water, 16A – High
  5. Shallow marsh, 13B – High

Wondering what happened to #2? It comes up later....

Unsure about using the rating? Consider your classification.



34

## ~ Plant Communities ~

### First: Identify & Rate

- Identify communities (#1).
- Cowardin and Circular 39.
- Quality rating of each community (#3).

Plant Community	%	Cowardin	Circular39	3. Veg Index
Shrub Carr	60	R2UBGx	Type 1	Low
Hardwood Swamp	20	L1DBGx	Type 1	High
Fresh (Wet) Meadow	20	PEMC	Type 2	Medium
* Fresh (Wet) Meadow	15B			
Shallow, Open Water Communities	16A			
Seasonally Flooded Basin	16B			
2. Floodplain Forest	3A			
Hardwood Swamp	3B			
Coniferous Bog	4A			
Coniferous Swamp	4B			
Open Bog	7A			

species within of each native or non-native to the site cover

2. Dominant Species

elm, American  
buckthorn, common  
loosestrife, purple  
rady's slipper, showy

#2 is a separate table...

35

## ~ Plant Communities ~

### Next: record dominant species

- Identify the dominant species that make up at least 10% coverage (#2).

2. Using the 50/20 rule, identify the dominant species within the evaluated wetland area, the cover class of each species, and the origin of each species (i.e. native or non-native). Use species list (included in the table to the right which includes non-native status) and six cover classes provided in the table. [Adapted from Kuchler, A.W. 1967, Vegetation Mapping, The Ronald Press, New York, New York].

Note: Cover Class 1 and 2 are for use with invasive species only.

2. Dominant Species	% Cover	Native?	Invasive/Noxious?
elm, American	>3-<10%	Yes	
buckthorn, common	>10-25%	No	
loosestrife, purple	0-3%	No	
rady's slipper, showy	1	Yes	
	1 0-3%		
	2 >3-<10%		
	3 >10-25%		
	4 >25-50%		
	5 >50-75%		
	6 >75-100%		

Dominant Species Display Name Toggle

Group Scientific

Click here for a drop-down Cover Category list...

36

## ~ Plant Communities ~ #2: Dominant Species drop-down list

- Look up species by common/group name or by scientific name.
- Click the Display Name Toggle to alternate.
- Don't try to list every plant.
- Use the <3% cover class only for rare or invasive species.

2. Dominant Species	% Cover	Native?	Invasive/ Noxious
elm, American	>3-10%	Yes	
buckthorn, common	>10-25%	No	
loosestrife, purple	0-3%	No	
lady's slipper, showy	0-3%	Yes	

Dominant Species Display Name Toggle:  Group  Common  Scientific

37

## ~ Plant Communities ~ Worksheet

- Each community has its own section
- Enter cover class and com

On both digital and paper, this list is for record-keeping only: species entries do not affect ratings

#1	Community Number (circle each community which represents a community)	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 12B, HA, 15A, 15B, 16B
#2	Community Name (circle each community which represents a community)	Community Name (circle each community which represents a community)
Plant Community		
Dominant Vegetation / Cover Class		
Invasive/Exotic Vegetation / Cover Class		
Community Quality (E, H, M, L)		

Field Worksheet Side 1

38

## ~ Plant Communities ~ Cattail Key/Table



Search For Wetland

117-23-12-001

Questions 24

General Informa

1

2

3

2. Identify the within the v the cover c (included in status) and from Kuchle Press, New York, New York].

Scirpus fluviatilis 2 Yes

Note: Cover Class 1 and 2 are for use with invasive species only.

Cattail Key **Cattail Table**

**Table 1: Diagnostic characteristics of cattails.**

Characteristic	<i>Typha latifolia</i> (Broad leaved cattail)	<i>Typha angustifolia</i> (Narrow leaved cattail)	<i>Typha glauca</i> (White/Blue, hybrid cattail)
Mature Leaf width	14 - 23 mm	4 - 10 mm	10 - 14 mm
Leaf Cross-section shape	Flat, scarcely concave below mid.	Convex below middle	Flat to convex below middle
Spike width	25 - 34 mm	15 - 22 mm	19 - 25 mm
Spike length		<15 cm	>15 cm
Spike separation	Frequently contiguous but not more than 2 cm apart	Separated by at least 2 cm and usually > 3 cm	Occasionally contiguous, more commonly up to 4 cm
Spike color	Dark brown to black	Brown	Brown to bright brown
Colony density	Sparse, often large gaps between shoots	Frequently very dense	Density intermediate

39

## Formula: Vegetative Integrity/Diversity

**There are four ways to report this function:**

**Individual Community Scores:** maintain raw data as recorded.

**Highest Quality Community:** report the highest-functioning community.

**Non-Weighted Average Quality of all Communities:** straight average

**Weighted Average Quality Based on Percentage of Each Community:** multiply each community rating by its percentage, then add all together.

40

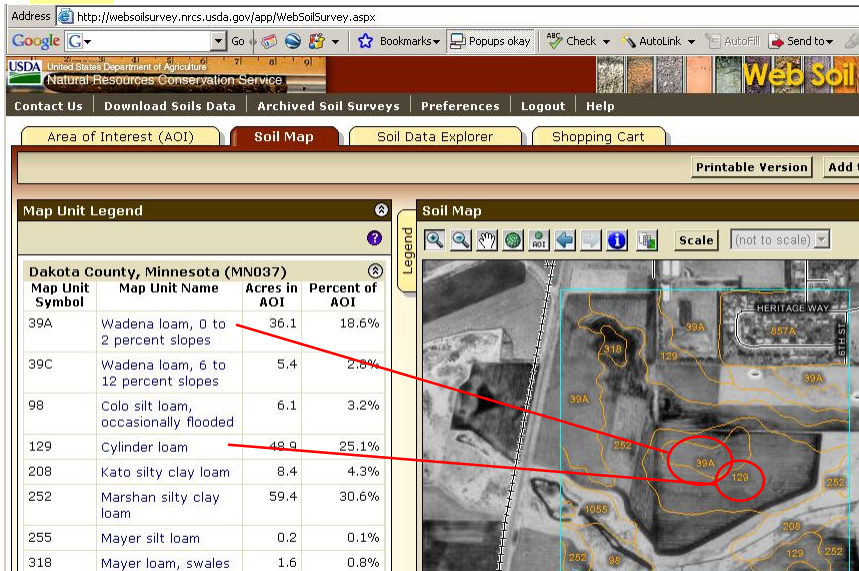
- The italicized questions require maps or other data to be answered.
- Every other question is formatted as bold just to make it easier to read.
- If the question asks for a percentage of H-M-L, put the percentage of each under the correct heading:

<b>H</b>	<b>M</b>	<b>L</b>
20%	60%	20%

## #7-10: Site data

7. Hydrogeomorphology of the site
8. Depth of standing water in the wetland (inches): \_\_\_\_\_  
Percent of wetland area inundated: \_\_\_\_\_%
9. Immediate drainage area in acres? \_\_\_\_\_
10. **Wetland size.** This information should have been entered on the General Information page. The number remains as a placeholder.

# #11: Soils data

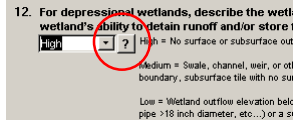


## MnRAM Rating Questions

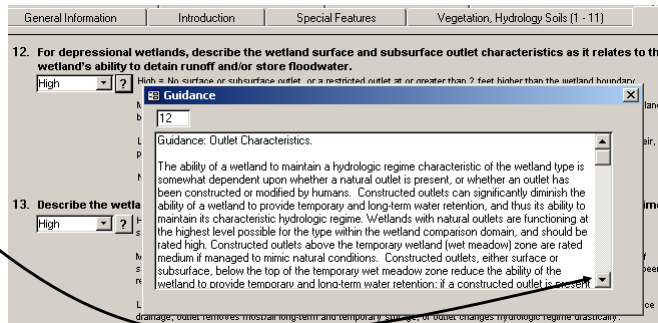
- Starting with #12, most questions are answered by filling in A-B-C.
- Each question has guidance to assist the user in interpreting the question and understanding how to answer in difficult site conditions...

# Guidance, how to

- For help with individual questions, click the “?” ...



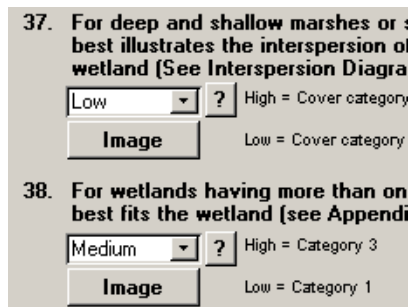
...then use the scroll bar to read the text:



45

# Image file for diagrams

To access the images, press “Image”



46

# Run summary report

General Information	Introduction	Special Features	Vegetation (1 - 6)	Hydrology and Soils (7 - 22)	Buffer and Shore (23 - 34)
Habitat (35 - 47)	Value (48 - 57)	Groundwater (58 - 63)	Additional Information (64 - 72)	Summary	

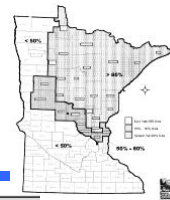
Complete Refresh Values Print Summary

Vegetative Diversity	3a. Proportion of Wetland (Percent Given)	3b. Individual Community Scores (VegQuality Ind)	3c. Highest Rated Community Quality	3d. Non-Weighted Average	3e. Weighted Average
Community #1	60.00	0.10			
Community #2	20.00	0.50			
Community #3	20.00	0.50			
Community #4					
Community #5					
Community #6					
Community #7					
Overall Wetland Vegetative Diversity					0.26
Maintenance of Hydrologic Regime		Moderate		Moderate	Low
Flood/Stormwater /Attenuation	0.77	High			

*This is the last tab in the database, where you can see individual ratings for each function for that particular wetland.*

47

# Management Classification



Minnesota Routine Assessment Method for Evaluating Wetland Functions Version 3.3

Search for Wetland: Vantneul shore Active Wetland: Vantneul shore Questions in red should be answered prior to site visit.

General Information	Introduction	Special Features	Vegetation (1 - 6)	Hydrology and Soils (7 - 22)	Buffer and Shore (23 - 34)
Habitat (35 - 47)	Value (48 - 57)	Groundwater (58 - 63)	Additional Information (64 - 72)	Summary	

Characteristic Amphibian Habitat: 0.04 Low

Aesthetics/Recreation /Education /Cultural: 0.32 Low

Commercial Uses: 0.00 Not Applicable

Groundwater Interaction: Combination Discharge, Recharge

Wetland Restoration Potential: 0.00 Not Applicable

Wetland Sensitivity to Stormwater and Urban Development: 0.10 High

Additional Stormwater Treatment Needs: 0.32 Low

**Wetland Management Classification**

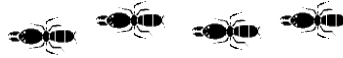
<b>Basic Wetland Protection: Manage 2</b>	<b>Increased Wetland Protection: Manage 1</b>
<b>Properties</b> Maintenance of Characteristic Amphibian Habitat  Property rating(s) Low	<b>Properties</b> Maintenance of Characteristic Fish Habitat  Property rating(s) Moderate

oup.

48



# Known bugs



Deleting an entry from #24-25-26 without entering a zero may result in a run-time error. Pressing <End> will return you to the field to correct your error.

23. Adjacent Buffer width: Average width of the naturalized buffer:

TO SCORE THE NEXT THREE QUESTIONS, consider a 50-foot ring around 10% of each category. Total must equal 100%.

24. Adjacent Area Management: average condition of vegetative cover for

<input type="text" value="1"/>	<input type="text" value="60"/>	% Full vegetative cover.
<input type="text" value=""/>	<input type="text" value=""/>	% Manicured, primarily vegetated (i.e. short-grass lawn, clippings left in place)
<input type="text" value="0"/>	<input type="text" value=""/>	% Lacking vegetation: bare soil or cropped, unfenced pasture, rip-rap, etc.
		100 % Total (must equal 100)

25. Adjacent Area diversity structure (composition of characteristics for h

<input type="text" value="7"/>	<input type="text" value="20"/>	% Full coverage of native non-invasive vegetation.
<input type="text" value=""/>	<input type="text" value="80"/>	% Mixed native/non-native vegetation, moderate density coverage, 0
<input type="text" value=""/>	<input type="text" value="0"/>	% Sparse vegetation and/or impervious surfaces.
		100 % Total (must equal 100)

Microsoft Visual Basic

Run-time error '94':  
Invalid use of Null

Continue End Debug Help

