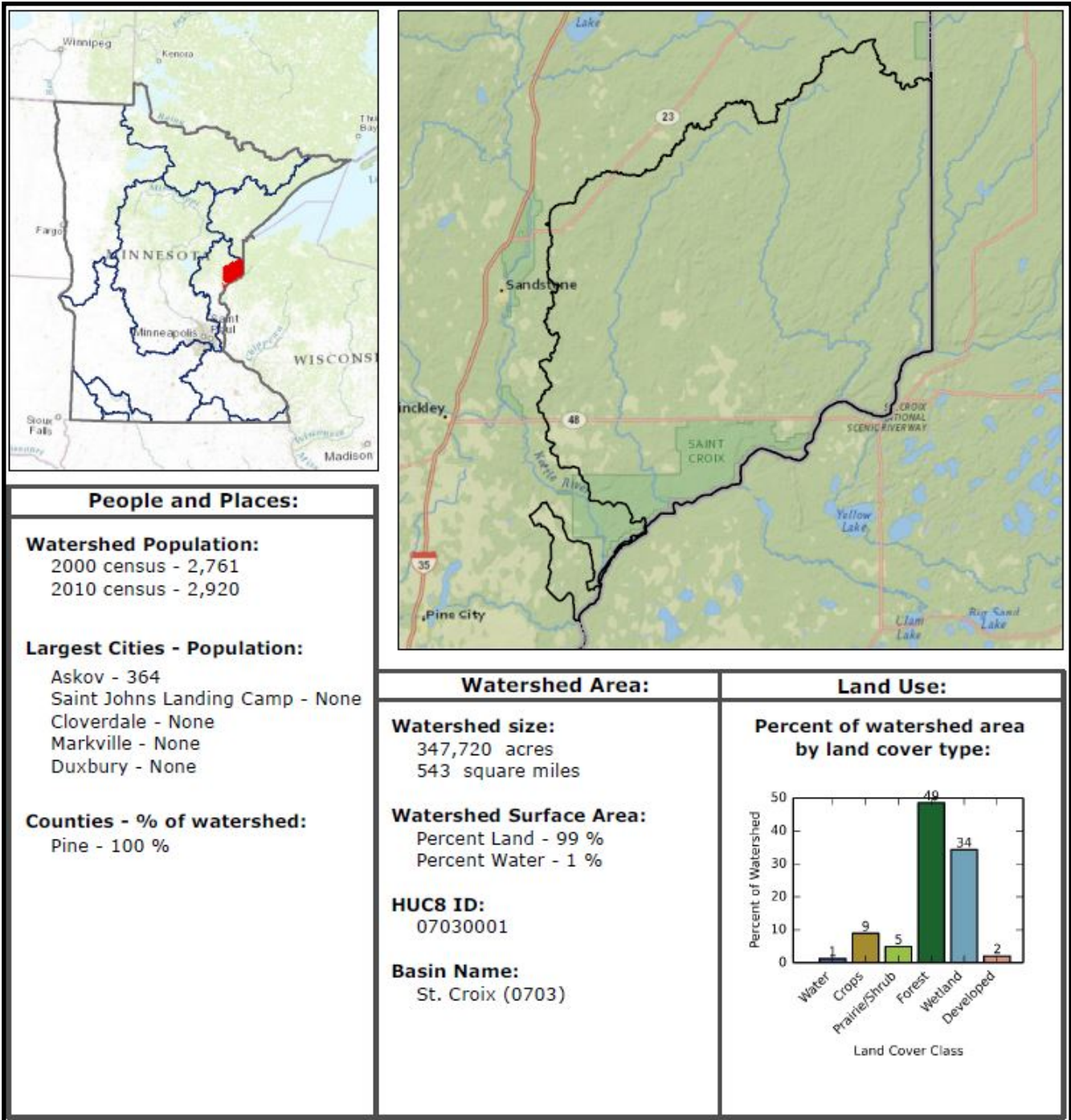
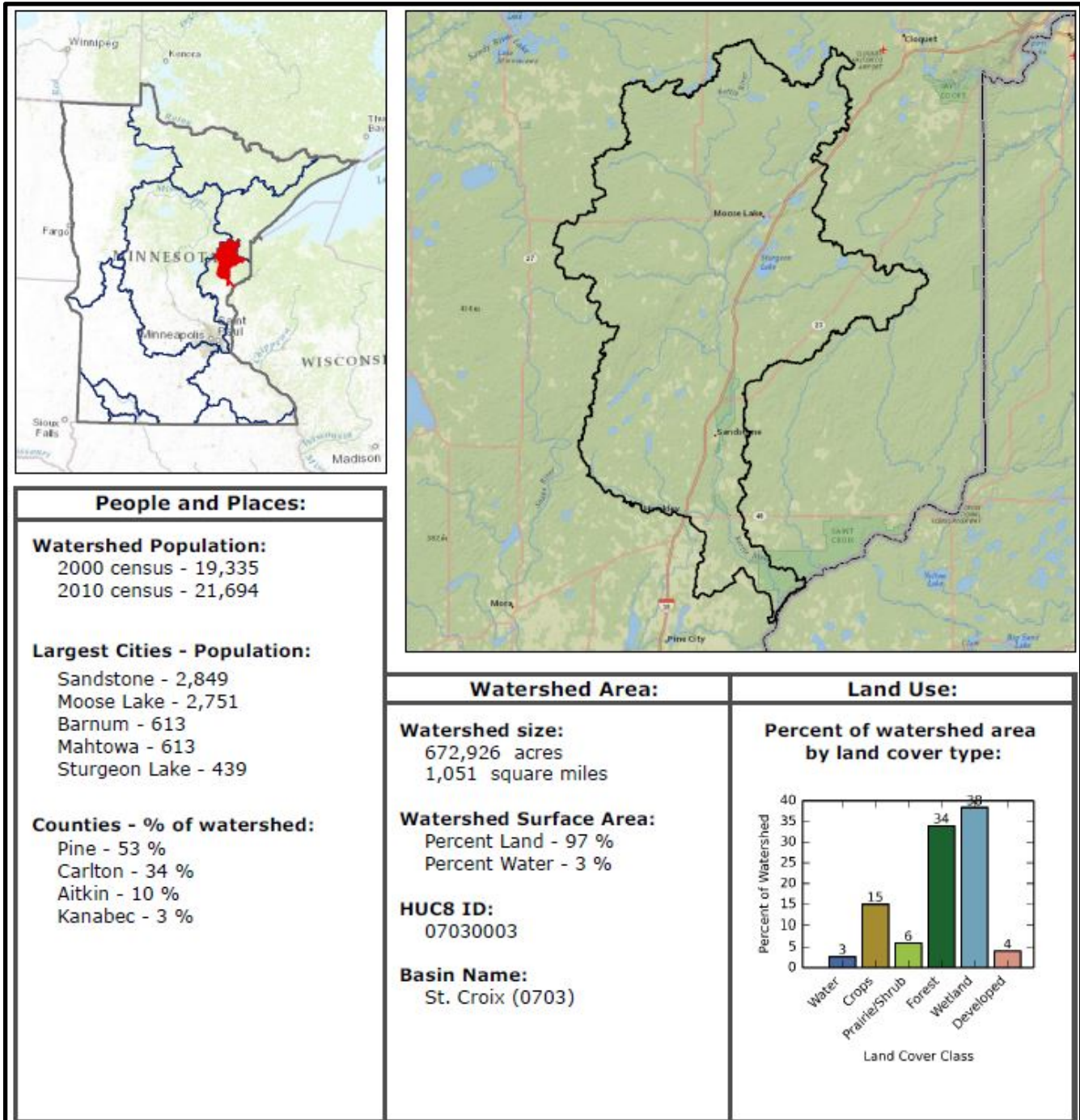


**Appendix A**  
**Minnesota DNR WHAF Major Watershed Summaries**

# Appendix A-1 UPSC Watershed Summary Sheet



## Appendix A-2 Kettle River Watershed Summary Sheet



## Appendix A-3 Snake River Watershed Summary Sheet



### People and Places:

#### Watershed Population:

2000 census - 26,322  
2010 census - 29,253

#### Largest Cities - Population:

Mora - 3,571  
Pine City - 3,123  
Hinckley - 1,800  
Brunswick - 1,333  
Grass Lake - 1,038

#### Counties - % of watershed:

Kanabec - 48 %  
Pine - 21 %  
Aitkin - 20 %  
Mille Lacs - 10 %  
Isanti - 1 %  
Chisago - 0 %

### Watershed Area:

#### Watershed size:

643,544 acres  
1,006 square miles

#### Watershed Surface Area:

Percent Land - 98 %  
Percent Water - 2 %

#### HUC8 ID:

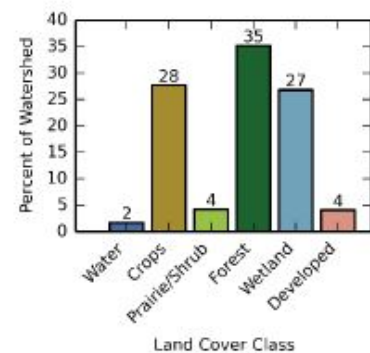
07030004

#### Basin Name:

St. Croix (0703)

### Land Use:

#### Percent of watershed area by land cover type:



# Appendix A-4 Stillwater Watershed Summary Sheet



### People and Places:

#### Watershed Population:

2000 census - 137,033  
2010 census - 158,712

#### Largest Cities - Population:

Forest Lake - 18,375  
Stillwater - 18,225  
East Bethel - 11,626  
North Branch - 10,125  
Lake Elmo - 8,069

#### Counties - % of watershed:

Chisago - 47 %  
Washington - 29 %  
Pine - 9 %  
Anoka - 8 %  
Isanti - 7 %  
Ramsey - 0 %

### Watershed Area:

**Watershed size:**  
585,737 acres  
915 square miles

#### Watershed Surface Area:

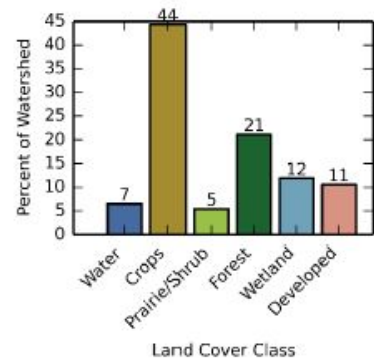
Percent Land - 93 %  
Percent Water - 7 %

**HUC8 ID:**  
07030005

**Basin Name:**  
St. Croix (0703)

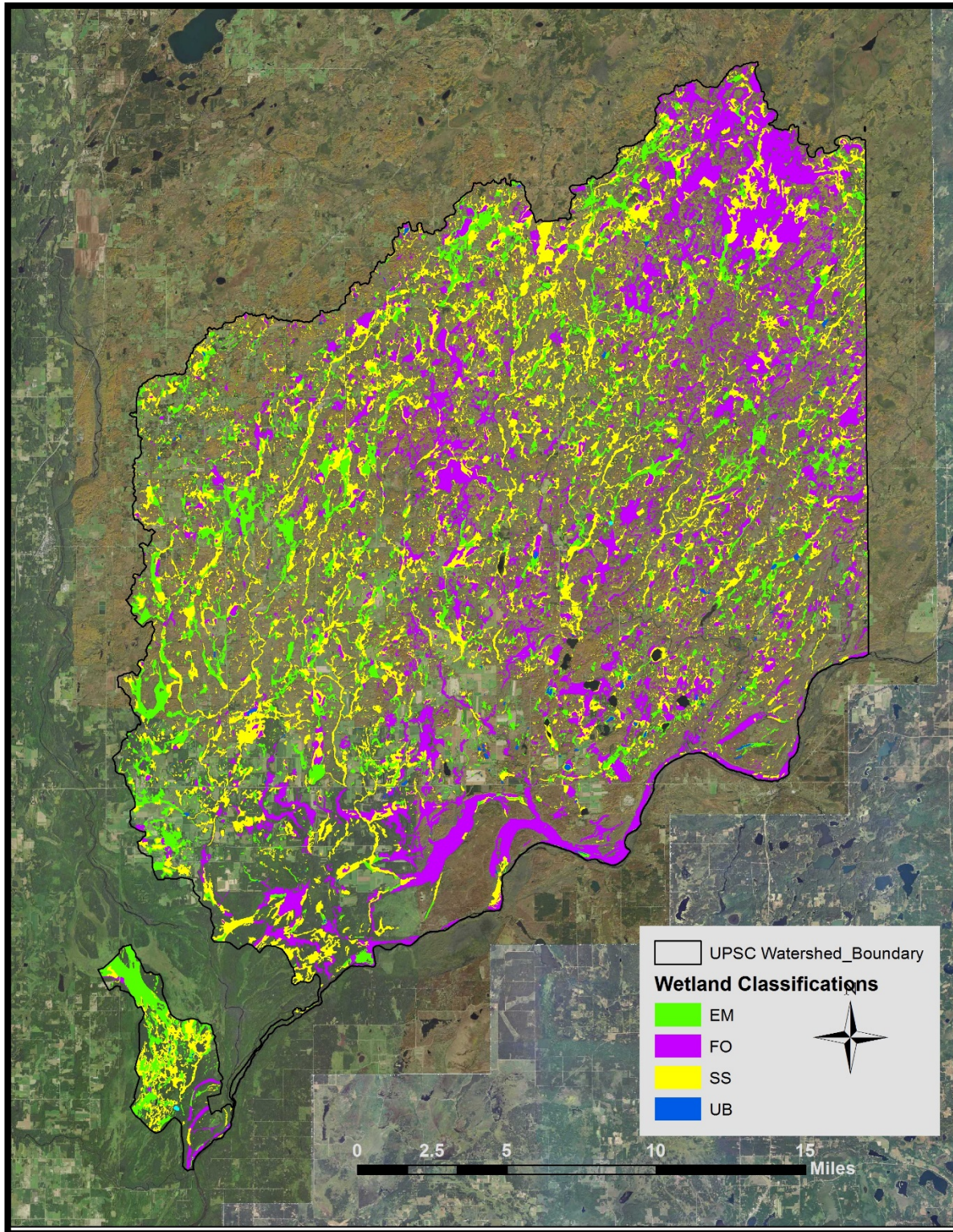
### Land Use:

#### Percent of watershed area by land cover type:



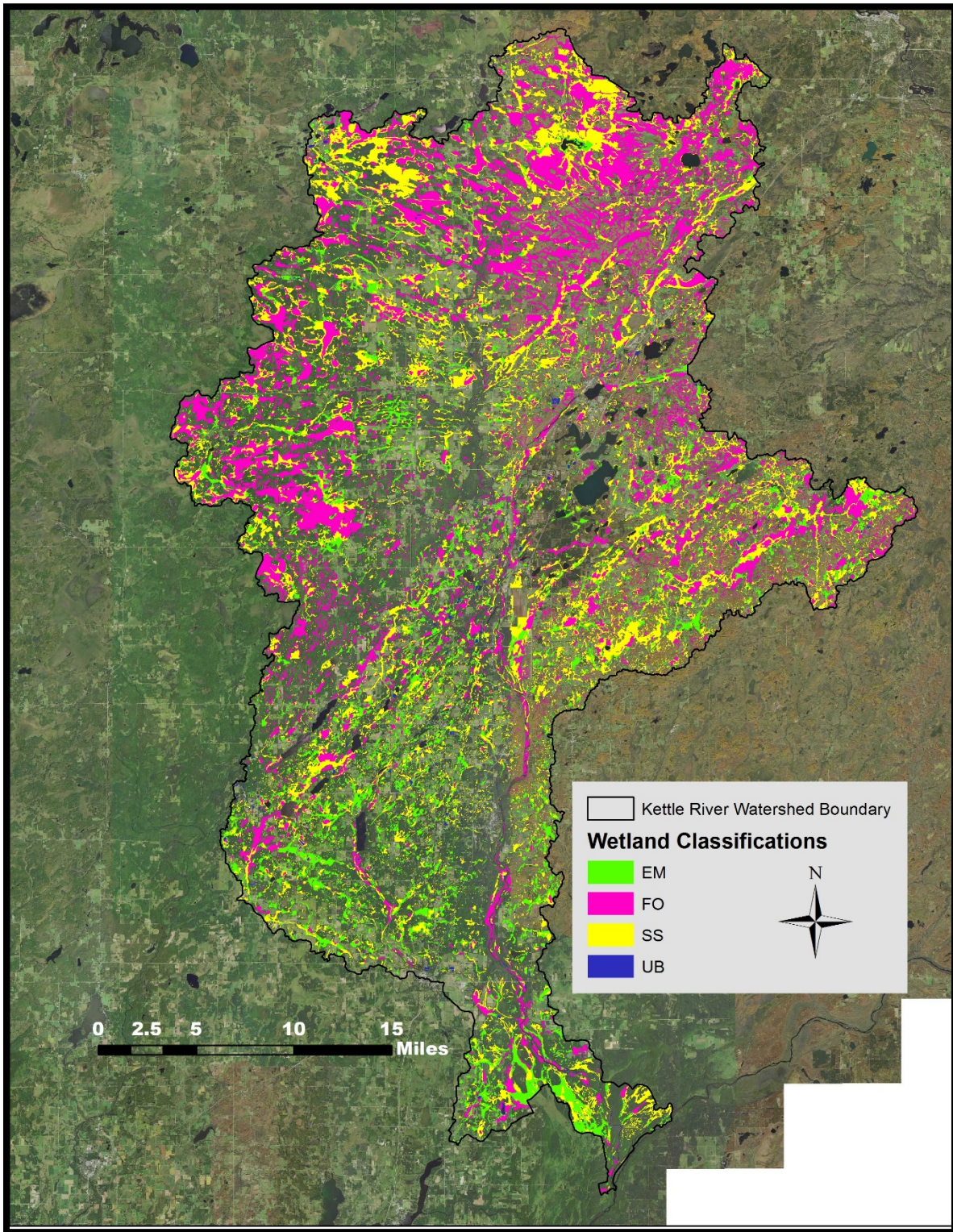
**Appendix B**  
**BSA 6 Major Watershed National Wetland Inventory Summaries**

## Appendix B-1 UPSC National Wetland Inventory Summary Sheet



Watershed Size (Ac)	Wetland Acres	% Wetlands per Watershed	Emergent	Forested	Scrub Shrub	Unconsolidated Bottom
347,719	111,908	32%	23%	38%	39%	1%

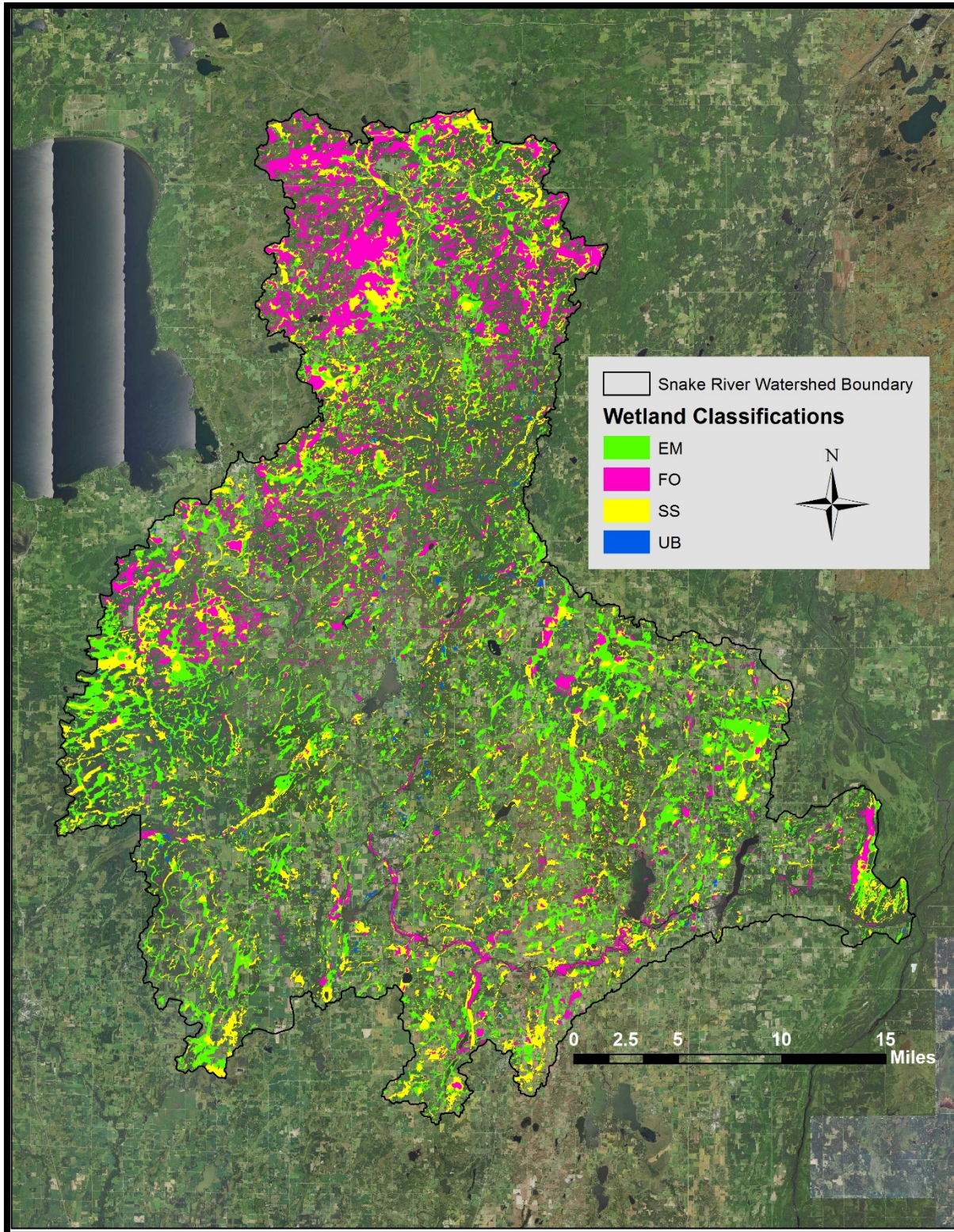
## Appendix B-2 Kettle River National Wetland Inventory Summary Sheet



Watershed Size (Ac)	Wetland Acres	% Wetlands per Watershed	Emergent	Forested	Scrub Shrub	Unconsolidated Bottom
672,924	220,581	33%	19%	43%	38%	1%

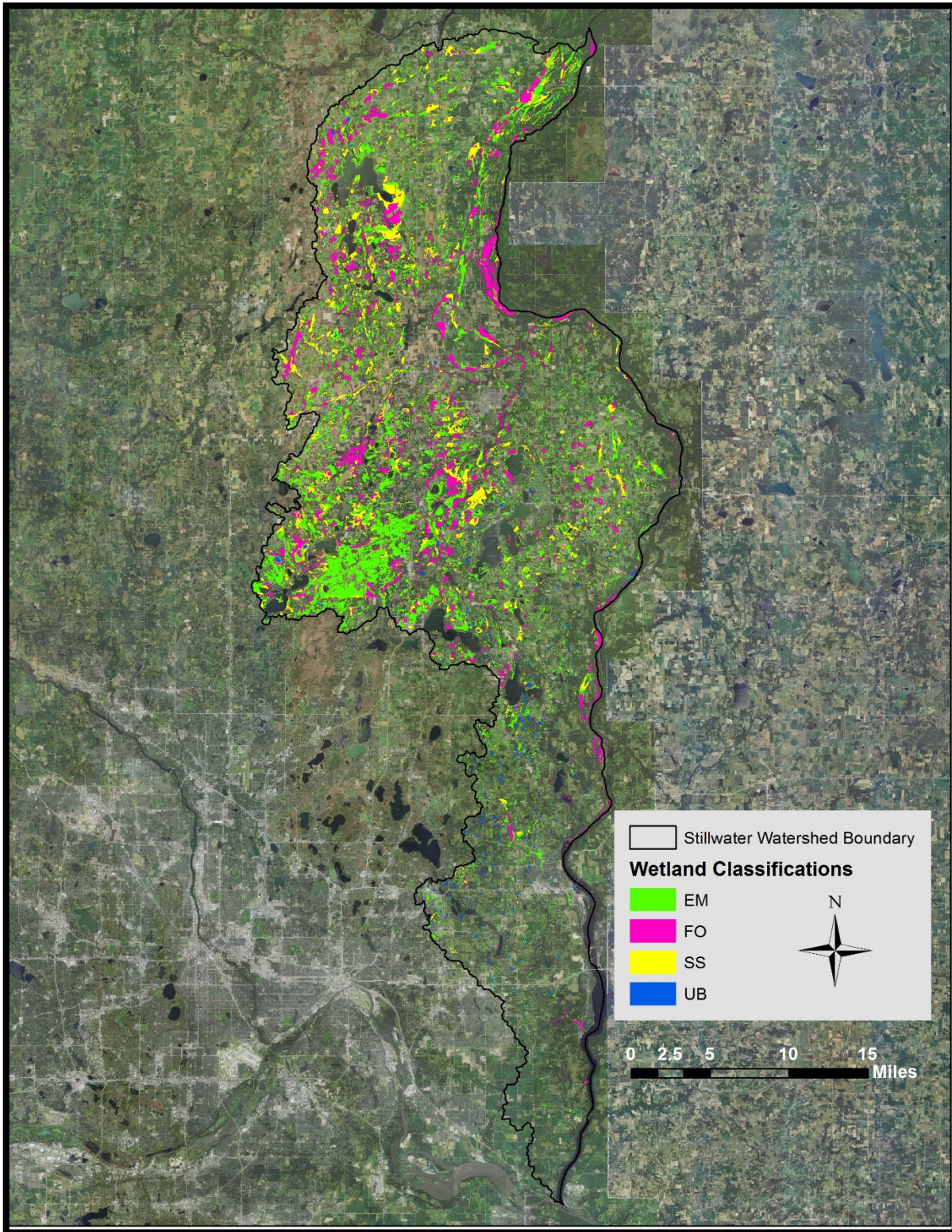


## Appendix B-3 Snake River National Wetland Inventory Summary Sheet



Watershed Size (Ac)	Wetland Acres	% Wetlands per Watershed	Emergent	Forested	Scrub Shrub	Unconsolidated Bottom
643,542	186,050	29%	43%	26%	30%	1%

## Appendix B-4 Stillwater National Wetland Inventory Summary Sheet



Watershed Size (Ac)	Wetland Acres	% Wetlands per Watershed	Emergent	Forested	Scrub Shrub	Unconsolidated Bottom
585,735	102,844	18%	53%	23%	19%	4%

**Appendix C**  
**Stakeholder Involvement**

**Appendix C-1**  
**February 2017 Stakeholder Meeting**

## BSA 6 Stakeholder List

Organization	Name	Email	Present at 2/18/17 Meeting
Washington SWCD	Jay Riggs	<a href="mailto:jay.riggs@mnwcd.org">jay.riggs@mnwcd.org</a>	Yes
Chisago SWCD	Craig Mell & Cassey	<a href="mailto:craig.mell@mn.nacdnet.net">craig.mell@mn.nacdnet.net</a>	Yes
Knabec SWCD	Deanna Pomije	<a href="mailto:deanna.pomije@mn.nacdnet.net">deanna.pomije@mn.nacdnet.net</a>	Yes
Pine SWCD	Robin Poppe	<a href="mailto:robin.poppe@co.pine.mn.us">robin.poppe@co.pine.mn.us</a>	No
Carlton SWCD	Laura Christianson	<a href="mailto:lchristensen@carltonswcd.org">lchristensen@carltonswcd.org</a>	Yes
Isanti SWCD	Todd Kulaf	<a href="mailto:todd.kulaf@mn.nacdnet.net">todd.kulaf@mn.nacdnet.net</a>	No
Mille Lacs SWCD	Suasan Shaw	<a href="mailto:susan.shaw@co.mille-lacs.mn.us">susan.shaw@co.mille-lacs.mn.us</a>	Yes
Aikin SWCD	Steve Hughs	<a href="mailto:hughes.aitkinswcd@gmail.com">hughes.aitkinswcd@gmail.com</a>	No
Anoka SWCD	Becky Wozney	<a href="mailto:becky.wozney@anokaswcd.org">becky.wozney@anokaswcd.org</a>	Yes
Comfort Lake Forest Lake WD	Mike Kinny	<a href="mailto:michael.kinney@clflwd.org">michael.kinney@clflwd.org</a>	No
Sunrise WMO	Jamie Shurbon	<a href="mailto:jamie.schurbon@anokaswcd.org">jamie.schurbon@anokaswcd.org</a>	No
Chisago Lake LID	Susanna Wilson	<a href="mailto:susanna.wilson@chisagocounty.us">susanna.wilson@chisagocounty.us</a>	No
Carnelian Marine St. Croix WD	Jim Shaver	NA	No
Browns Creek WD	Karen Kill	<a href="mailto:karen.kill@mnwcd.org">karen.kill@mnwcd.org</a>	No
Valley Branch WD	John Hanson	<a href="mailto:jhanson@barr.com">jhanson@barr.com</a>	Yes
South Washington WD	Matt Moore	<a href="mailto:mmoore@ci.woodbury.mn.us">mmoore@ci.woodbury.mn.us</a>	Yes
Middle St. Croix WMO	Mike Isensee	<a href="mailto:misensee@mnwcd.org">misensee@mnwcd.org</a>	No
St. Croix River Association	Deb Ryun	<a href="mailto:debryun@scramail.com">debryun@scramail.com</a>	Yes
St. Croix River Association	Monica Zachay	<a href="mailto:monicaz@scramail.com">monicaz@scramail.com</a>	Yes
St. Croix River Association	Natalie Warren	<a href="mailto:nataliew@scramail.com">nataliew@scramail.com</a>	No
Chisago County Environmental	Jeff Fertig	<a href="mailto:jafertig@co.chisago.mn.us">jafertig@co.chisago.mn.us</a>	No

# St. Croix Drainage Basin (Bank Service Area 6) Stakeholder Meeting Agenda

February 28<sup>th</sup> 12 PM  
6355 379th St, North Branch, MN 55056

12:00 PM

- Introductions
- What is an In-Lieu Fee Program?
  - Compensatory Planning Framework (CPF)
  - Importance of local stakeholder input
- How will we develop the CPF?
  - BWSR will analyze current vs historic watershed conditions, sources of impairment and threats using publically available data sets.
  - We will ask for your input on appropriate data sources and local plans.
  - BWSR will identify specific watershed goals that will guide the prioritization of wetland restorations.
  - What you think are the most important watershed goals that should guide the prioritization of wetland restorations.
- How final product will be used, and who will use it.
  - How used by the road program.
  - How used by the private sector as they seek to develop commercial banks.
- Proposed timeline for completion.
- Next Meeting

1:30 Adjourn

## St. Croix Basin ILF Program Stakeholder Meeting



## What is an ILF Program

- Fee based wetland mitigation program based on a watershed approach



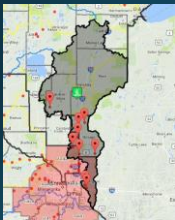
## ILF Approval Process

- Based in Federal Rule
  - Federal approval necessary no State approval process
- Agreement between Corps and Sponsor to allow Sale of Advance Credits
  - Pre-Approved plan on how mitigation will occur

## ILF and Banks

- Advanced vs Released Credits
  - Advanced are like Loan
  - Released or on the landscape
- Non-Profits or Government Agencies Only
  - Removed the drive for profit
  - Outcome driven= better mitigation
- Watershed approach selection of projects
  - Banks are opportunity based

## Current State of Mitigation



6.6 Credits Remaining

## Two Components of ILF Program

- Instrument
  - Program Establishment and Operation
    - Costs and Fees of Credits
    - Accounting Procedures
    - Long Term Management
    - Land Protection
    - Reporting
- Compensatory Planning Frame Work (CPF)
  - How and Where Mitigation Will Occur

## Compensatory Planning Framework (CPF)

- Prioritizes Wetland Restoration to Meet Watershed Goals

The diagram shows two watershed maps. The left map, titled 'BARRIER AND SINK', shows a watershed with a central orange area and several yellow stars. The right map, titled 'TARGETING CRITICAL SUB-AREAS', shows the same watershed with a central orange area and several yellow stars, but with a different configuration of stars and lines, indicating a more targeted approach to wetland restoration.

## CPF Development Process

The flowchart shows a sequence of steps in a light blue arrow pointing right:
 

- Analyze Current vs. Historic Watershed Conditions
- Identify Sources of Impairment or Threats
- Stakeholder Input And Local Plans
- Develop Watershed Goals
- Prioritization Strategy for Projects
- Implementation

## Stakeholder Input

- Federal Rule Requires Stakeholder Input
  - Nothing replaces local knowledge
- Input on Appropriate Data Sources (State and Local)
- Lead Us Through Your Local Plans
- ID Your Most Important Watershed Goals

An illustration of several lightbulbs of various sizes and colors (yellow, white, green) on a green chalkboard background, symbolizing ideas and stakeholder input.

## CPF Development

- Initial Analysis using GIS to Determine
  - Wetland Loss
  - Changes in Perennial Cover
  - Changes in Land-use
  - Changes in Hydrologic Storage
  - ???
- Identify Sources of Impairment and Threats
  - Wide ranging in St. Croix Basin
    - Ag vs Development
    - TMDL's Vs Loss of Habitat

A yellow arrow pointing downwards from the 'Initial Analysis' step to the 'Identify Sources' step.

## CPF Development Initial Data Sources

- Watershed Health Assessment Framework
  - <http://arcgis.dnr.state.mn.us/ewr/whaf/Explore/#>
    - Web-site that provides a comprehensive overview of the ecological health of Minnesota's watersheds
- Provides:
  - Watershed Report Card
  - Ecological Context Report
  - Downloadable GIS Data on Watersheds and Catchments

## CPF Development Initial Data Sources

- Restorable Wetland Prioritization Tool
  - <http://www.mnwetlandrestore.org/>
  - MNRWI
    - Predicts likely locations for restorable wetlands using 30-Meter DEM resolution
    - Locates stressed areas in need of water quality and habitat improvement
    - Prioritizing areas that are most likely to result in high functioning sustainable wetlands
    - Refines output based on your priorities
- Provides
  - Downloadable GIS data at the 30 meter pixel resolution
  - Focus on Nitrogen, Phosphorus, Habitat

A map showing four data layers: 'Classen (30M Contour)', 'Wetland Potential (30M DEM)', 'Priority Areas (30M DEM)', and 'Wetland Potential (30M DEM)'. The map uses different colors to represent these layers.



## CPF Development Share and Present Data



1. Present Analysis of Data
  - Maps
  - Tabular data
  - Our thoughts on threats
  - Our Thoughts on Goals
2. Solicit Information from you
  - What local data you may have
  - What you perceive as threats
  - Your watershed goals



## Final Step in CPF Development



### Goals



### PRIORiTiES

- 1.
- 2.
- 3.



## Use of CPF



- Road Program Access to Advance Credits
  - Prevent closure of program in service areas
  - Guide for future road banks
  - Can act as an economic catalyst to share credits with private sector needs
- Private Commercial Banks
  - Bankers and use CPF to locate potential bank sites
  - CPF credits will have more value than non-CPF credits (New WCA Rules)
  - Will grandfather existing banks

## Use of CPF



- Non-Regulatory Conservation Groups
  - BWSR RIM
  - CREP
- Watershed District Plans and Projects
  - Direct project location for regulatory and non-regulatory uses
- SWCD Projects
  - Work with county or landowners is developing more effective projects

## Time Line

- |                              |            |
|------------------------------|------------|
| • Prospectus                 | March 2017 |
| • Second Stakeholder meeting | ?          |
| • Draft Instrument           | ?          |
| • Final Instrument           | ?          |

## Goal of Next Meeting



1. Present Analysis of Data
  - Maps
  - Tabular data
  - Our thoughts on threats
  - Our Thoughts on Goals
2. Solicit Information from you
  - What local data you may have
  - What you perceive as threats
  - Your watershed goals

**Appendix C-2**  
**January 2018 Stakeholder Meeting**

## BSA 6 Stakeholder List

Organization	Name	Email	Present at 1/22/18 Meeting
Washington SWCD	Jay Riggs	<a href="mailto:jay.riggs@mnwcd.org">jay.riggs@mnwcd.org</a>	No
Chisago SWCD	Craig Mell & Cassey	<a href="mailto:craig.mell@mn.nacdnet.net">craig.mell@mn.nacdnet.net</a>	Yes
Knabec SWCD	Deanna Pomije	<a href="mailto:deanna.pomije@mn.nacdnet.net">deanna.pomije@mn.nacdnet.net</a>	No
Pine SWCD	Robin Poppe	<a href="mailto:robin.poppe@co.pine.mn.us">robin.poppe@co.pine.mn.us</a>	No
Carlton SWCD	Laura Christianson	<a href="mailto:lchristensen@carltonswcd.org">lchristensen@carltonswcd.org</a>	Yes
Isanti SWCD	Todd Kulaf	<a href="mailto:todd.kulaf@mn.nacdnet.net">todd.kulaf@mn.nacdnet.net</a>	Yes
Mille Lacs SWCD	Suasan Shaw	<a href="mailto:susan.shaw@co.mille-lacs.mn.us">susan.shaw@co.mille-lacs.mn.us</a>	No
Aikin SWCD	Steve Hughes	<a href="mailto:hughes.aitkinswcd@gmail.com">hughes.aitkinswcd@gmail.com</a>	No
Anoka SWCD	Becky Wozney	<a href="mailto:becky.wozney@anokaswcd.org">becky.wozney@anokaswcd.org</a>	Yes
Comfort Lake Forest Lake WD	Mike Kinny	<a href="mailto:michael.kinney@clfld.org">michael.kinney@clfld.org</a>	No
Sunrise WMO	Jamie Shurbon	<a href="mailto:jamie.schurbon@anokaswcd.org">jamie.schurbon@anokaswcd.org</a>	No
Chisago Lake LID	Susanna Wilson	<a href="mailto:susanna.wilson@chisagocounty.us">susanna.wilson@chisagocounty.us</a>	No
Carnelian Marine St. Croix WD	Jim Shaver	NA	No
Browns Creek WD	Karen Kill	<a href="mailto:karen.kill@mnwcd.org">karen.kill@mnwcd.org</a>	No
Valley Branch WD	John Hanson	<a href="mailto:jhanson@barr.com">jhanson@barr.com</a>	Yes
South Washington WD	Matt Moore	<a href="mailto:mmoore@ci.woodbury.mn.us">mmoore@ci.woodbury.mn.us</a>	No
Middle St. Croix WMO	Mike Isensee	<a href="mailto:misensee@mnwcd.org">misensee@mnwcd.org</a>	No
St. Croix River Association	Deb Ryun	<a href="mailto:debryun@scramail.com">debryun@scramail.com</a>	No
St. Croix River Association	Monica Zachay	<a href="mailto:monicaz@scramail.com">monicaz@scramail.com</a>	No
St. Croix River Association	Natalie Warren	<a href="mailto:nataliew@scramail.com">nataliew@scramail.com</a>	No
Chisago County Environmental	Jeff Fertig	<a href="mailto:jafertig@co.chisago.mn.us">jafertig@co.chisago.mn.us</a>	No

# St. Croix Drainage Basin (Bank Service Area 6)

## Stakeholder Meeting Agenda

January 22<sup>nd</sup> 12 PM

6355 379th St, North Branch, MN 55056

12:00 PM


- Compensatory Planning Framework (CPF) Overview
  - Baseline Conditions
    - Description of Data Used
  - Cumulative Impact Analysis
    - What we found
  - Description of Threats to the BSA
- Vulnerability Assessment
  - Purpose of Assessment and what it does for the CPF
- Site Selection Criteria
  - Solicit input from Stakeholders
- Next Steps

2:00 Adjourn



## Today's Goals

1. Describe CPF components
2. Review data used in CPF
3. Discuss and select site selection criteria




## CPF Components

1. Geographic Service Area
2. Baseline Data
3. Cumulative Impact Analysis
4. Description of Threats
5. Prioritization Strategy



## Geographic Service Areas

- Defines the scale of area involved and provides General descriptions
  - Population
  - Land area
  - Land-use
  - Ecological classifications
  - Precipitation
  - Water discharge rates
  - Pre-settlement vegetation
  - Topography



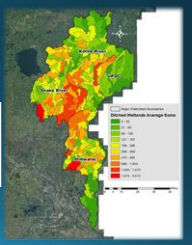
## Baseline Data

- Analysis of Current Conditions
  1. Wetlands
  2. Lakes and water courses
  3. Altered Water courses
  4. Water quality
  5. Land cover and perennial cover
  6. Sensitive species
  7. Section 404 permitting

## Baseline Data

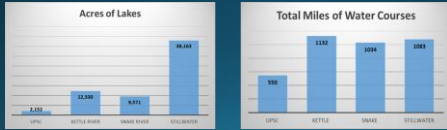
1. Wetlands
  - a. Acres and Types per Major Watershed
  - b. Acres ditched per major and minor watershed

Watershed	Acres in Watershed	Wetland Acres	% Wetlands		Percent Ditched	Emergent	Forested	Scrub Shrub	Unconsolidated Bottom
			Watershed	Ditched					
Stillwater	59,272	101,843.8	17.0%	35,695.5	30.8%	52.0%	13.5%	19.4%	4.4%
Kettle River	674,946	248,281.5	36.8%	132,993.3	54.0%	28.8%	44.2%	37.2%	4.8%
Snake River	624,541	188,029.1	30.1%	79,466.4	26.0%	43.5%	24.6%	30.4%	1.4%
UPSC	347,779	111,048.4	31.9%	42,367.7	35.6%	22.8%	28.0%	35.9%	0.5%
BSA	1,249,538	442,182.9	35.4%	162,514.8	35.6%	33.4%	33.7%	33.6%	3.3%



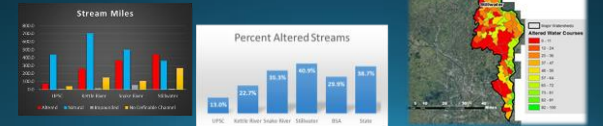
## Baseline Data

2. Lakes and Water Courses
  - a. Acres of lakes
  - b. Miles of stream per watershed



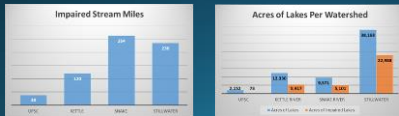
## Baseline Data

3. Altered Water Courses
  - a. Miles of: altered, natural, impounded, no definable channel
  - b. Index Scores at Minor watershed scale (ratio of length of altered watercourse to the total length of water course scaled x100)



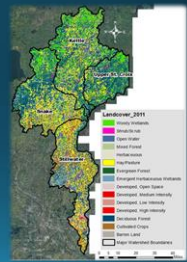
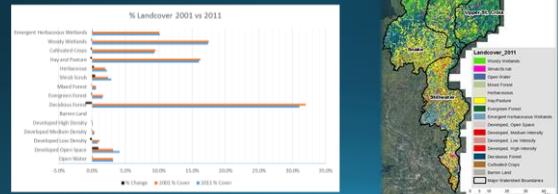
## Baseline Data

4. Water Quality
  - a. Miles of Impaired Streams per major watershed
  - b. Acres of impaired lakes per major watershed
  - c. Degree and results of TMDL Studies



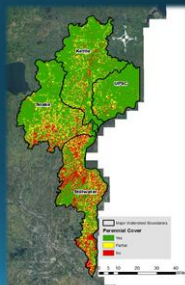
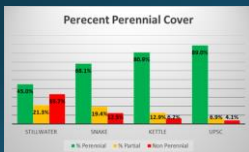
## Baseline Data

5. Land Cover
  - a. Trends of Loss and Gains per major watershed



## Baseline Data

5. Perennial Cover
  1. Per major Watershed
  2. Subset of land cover data



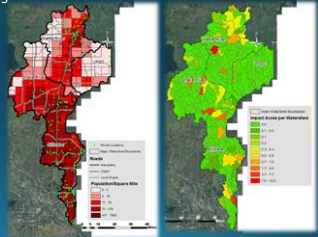
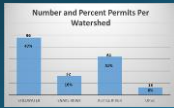
## Baseline Data

6. Sensitive Species

Species	Climate	Location in ES&G	Habitat
<i>Aspen (Populus tremula)</i>	Threatened (Rel)	Caribou, Pine	Northern forested areas
<i>Caribou (Rangifer tarandus)</i>	Threatened (Rel)	Caribou, Pine	Northern forested areas
<i>Thru-hill Bluebird (Sialia mexicana)</i>	Threatened (Rel)	Through-hill BS&G	Hibernates in leaves and mosses—nesting in burrowing woodpecker hollows. Birds and young in upland forests during spring and summer.
<i>Trillium (Trillium luteum)</i>	Endangered (Rel)	Chicago, Washington	Grasslands with flower heights from April through October. Overgrazing and disturbance in wetlands or dumps of grasses above ground in wetlands, and undisturbed soil for hibernating species to overwinter.
<i>Trillium (Trillium luteum)</i>	Endangered (Rel)	Chicago, Washington	Mississippi and St. Croix Rivers
<i>Trillium (Trillium luteum)</i>	Endangered (Rel)	Chicago, Washington	St. Croix River
<i>Trillium (Trillium luteum)</i>	Endangered (Rel)	Chicago, Pine, Washington	Mississippi and St. Croix Rivers
<i>Trillium (Trillium luteum)</i>	Endangered (Rel)	Chicago, Washington	Mississippi and St. Croix Rivers

## Baseline Data

### 7. Section 404 Permitting Analysis



## Summary of Baseline Conditions

- Consistent and significant degradation from north to south
  - Northern Watersheds (*Northern Kettle & UPSC*)
    - Upland and aquatic resources are more intact
  - Central Portion (*Southern Kettle and Snake*)
    - Changes from forested to agricultural with higher degree of disturbance
  - Southern Portion (*Stillwater*)
    - Most degraded and urbanized

## Cumulative Impact Analysis

- Summary of the loss of aquatic resources
  1. Wetland Loss
  2. Ditched Wetlands
  3. Wetland Banking Analysis

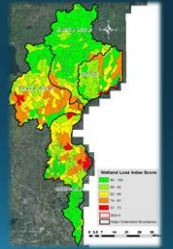
## Cumulative Impact Analysis



### Wetland Loss

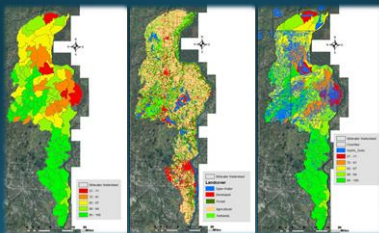
- (WHAF Data Using SSURGO and STATSGO)

Watershed	Acres in Watershed	NWI Wetlands Acres	Hydric Soil Acres	Acres Lost	% Lost	% Lost per Watershed Area
Stillwater	585,735	146,317	207,046	60,730	41.5%	10.4%
Kettle River	672,914	232,397	242,158	20,711	4.2%	1.4%
Snake River	643,542	195,134	227,930	81,286	41.7%	12.7%
UPSC	347,719	113,619	142,752	29,133	25.6%	8.4%
BSA	2,240,920	688,467	860,895	181,389	26.3%	8.1%



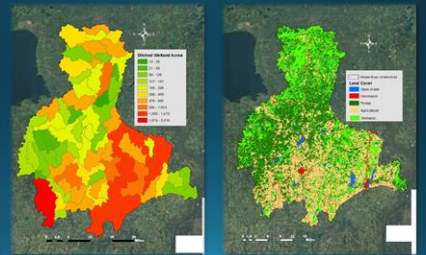
## Cumulative Impact Analysis

- Wetland Loss (Wetland Loss WHAF Data-Land Use-Hydric Soils)



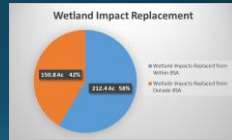
## Cumulative Impact Analysis

- Ditched Wetlands
  - Correlate land-use to wetland alteration



## Cumulative Impact Analysis

- Wetland Mitigation
  - Status of banking program in BSA
  - How or where replacement occurs



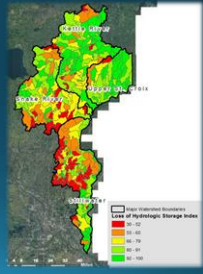
Number of Wetland Banks	Total Credits Generated	Current Available Credits	Federally Approved Credits	State Only approved Credits
37	769.3	73	29.9	43.1

## Description of Threats

- Based on data what we identify as threats to the aquatic resources of the BSA.
  - Loss of hydrologic storage
  - Population growth
  - Declining water quality

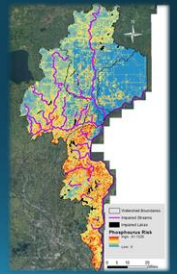
## Description of Threats

- Loss of Hydrologic Storage (WHA)
  - Loss of wetlands
  - Miles of altered streams
    - Placed on a scale of 1-100



## Description of Threats

- Population and Urbanization
    - Loss of perennial cover
    - Artificial drainage
    - Fragmentation of habitats
    - Increase in impervious surfaces
- MPCA Phosphorus stress layer used to predict anthropogenic stress on water quality



## Description of Threats

- Water Quality Impairments
  - Land-use changes
  - Urbanization



## Prioritization Strategy

- Strategic site selection using a watershed approach
  - Watershed vulnerability/condition analysis
    - Assesses the condition of each major watershed
  - Identification of priority minors within each major
    - Purpose is to identify areas within a major watershed where mitigation opportunities should be prioritized
  - Site selection criteria
    - Develop a list of specific site selection criteria to select and rank individual projects



## Prioritization Strategy

1. Watershed vulnerability analysis
  - Select data to assess vulnerability of each major watershed
  - Normalize data (*Adjust values of different scales to a common scale*)
  - Reclassify to derive an index (*e.g. scale 1-10*)
  - Evaluate vulnerability based on index scores

BSA 6 Major Watershed Vulnerability Analysis									
Major Watershed	Wetland Loss	Altered Watercourses	Perennial Cover	Population Density	Ditched Wetlands	Wetland Impacts/Year	Impaired Streams	Impaired Lakes	Total
UPSC	8	4	3	1	3	1	3	1	24
Snake	10	10	6	2	10	10	10	9	67
Kettle	2	6	4	2	3	10	5	8	40
Stillwater	10	10	10	10	10	7	9	10	75

## Prioritization Strategy

2. Identification of priority minors within each major
  - Minor watersheds proposed to be ranked using a process similar to the vulnerability assessment based the following data sets

- MNDNR WHAF Soil Erosion Potential
- MNDNR WHAF Perennial Cover
- MNDNR WHAF Aquatic Habitat Connectivity
- Ditched Wetlands
- Altered Watercourses
- Impaired Streams
- Impaired Lakes
- Recognition as a Priority Area for Wetland Restoration Projects in Local Water Management Plans
- Recognition as a Project Implementation Area in an Approved TMDL
- Other High Priority Areas Recognized under the Wetland Conservation Act
- ??????

Used to weight ranking

## Prioritization Strategy

3. Site Selection Criteria
  - Prioritize wetland restoration opportunities by developing specific criteria to select preferred sites
  - Restorable Wetland Inventory
    - Baseline for identifying potential restoration opportunities



## Site Selection Criteria

## Memorandum for File

**Date:** 2/23/2018

**From:** Dennis Rodacker

### RE: BSA 6 ILF Stakeholder Meeting Summary

This memo summarizes the In-Lieu Fee (ILF) Compensation Planning Framework (CPF) stakeholder meeting held on 1/22/18. The goal of this meeting was to cover the completed components of the CPF and to elicit site selection criteria from the stakeholders.

Presented to the group was a description of the individual components of the CPF with the focus on baseline information and the condition assessment. After the stakeholder group had obtained a good understanding of the CPF, the focus moved to mitigation site selection criteria. The last step remaining is to have the stakeholders rank these criteria for use in the prioritization process. The following criteria were identified as important for site selection in BSA 6 by the stakeholders present at the meeting.

- Number of Landowners per restoration site, the fewer the better
- Connectivity of parcels along with their riparian corridors, examples include
  - Natural or wildlife corridors identified in local or state plans
  - Parks and open space
  - County Biological Survey areas
  - Areas with both state and federal sensitive/T&E species
- Variable size requirements depending on where you are in the BSA. The closer to the metro the smaller the size requirement should become
  - Stillwater 5-Acres
  - Kettle 40-Acres
- Sites that act as buffers between agricultural lands and other aquatic resources, or that have direct discharge to other aquatic resources
- Cost of procuring the rights to perform restoration activities
- Sites located within priority wetland restoration areas identified by LGUs, SWCDs, watershed districts or other aquatic resource agencies
- Proximity to other conservation projects
  - CREP
  - RIM
  - Stream restoration projects
- Sites located in areas where additional flood storage has been identified as a local watershed need
- Restorable wetlands fully or partially drained by ditches

- Prioritize private systems over public systems, as private systems can be altered much easier than public systems
- Restorable wetlands which are fully or partially drained by tile
  - Lack of tile maps makes this difficult
- Costs related to implementing a restoration plan, such as earth moving, ditch plugs, or tile removal
- Water quality functional lift
  - Restorable wetlands directly adjacent to impaired waters with direct discharge
  - Restorable wetlands not directly adjacent to impaired water, but have inferred indirect discharge to those waters
- Drained forested wetlands identified in local water plans or LGUs
- Avoid areas where future land use is designated for urbanization
- Ground water sensitive and recharge areas designated by local or state plans