



March 8, 2021

To: Participants in the Locally Led Conservation II Training Series Session #2

From: LeAnn Buck, Executive Director, MASWCD

Keith Kloubec, Assistant State Conservationist-Programs, NRCS

Welcome to the March online training series where the spotlight is on **Locally Led Conservation**. Engaging speakers, important concepts, topic refreshers, and examples to apply are in this training package. Each session includes a handout packet of materials to support the key messages of the speakers.

This week's session is Making Local Working Groups Informed as relevant information helps a team develop options and make decisions. Based on survey data from you, this session focuses on making sense at the local level of the plethora of planning processes as well as the load/overload of technical information to inform priorities. Specifically, the aim is enhancing your ability to use key points from scientific data, existing plans, and partners to inform the LWG and to create a local conservation action plan.

- Setting the Stage for Today Keith and LeAnn
- Utilizing a Natural Resources Inventory- Ryan Galbreath, NRCS -State Resource Conservationist
- Aligning 1W1P planning, SWCD comprehensive plans, and LWGs
  - Gregory Johnson, MPCA and Darren Newville, SWCD Manager, East Otter Tail and Wadena
- Sharing Technical Findings and Reports with the Public and LWGs-Justin Hanson, Mower SWCD
- Small Group Discussion:
  - How do I communicate scientific information as part of a planning conversation about conservation?
- Developing a Conservation Needs Assessment Cory Walker, NRCS-District Conservationist and CST, Alexandria
- Creating a Conservation Action Plan Keith Kloubec, NRCS

**NOTES:** Included in this packet is a handout with each segment of the agenda and space for your key take aways, notes, and action ideas to jot down as you go along.

#### **TIPS FOR SUCCESS:**

- 1. Log onto Zoom 5-10 minutes before the session begins to be sure your connections are working well. You will be in a waiting room.
- 2. Preference for participation is for video camera on and muted.
- 3. Use the chat feature to share questions and ideas, and as time allows a response will be given or look for follow-up information after the session.
- 4. The session will be recorded (exception is the breakout discussions) and posted in April after the conclusion of the series. We encourage live participation as that will have the greatest benefit.

Thank you for investing in this time. We appreciate your commitment.

#### Questions:

Please contact Donna Rae Scheffert leadershiptools@charter.net\_or call 612-360-4484



## **Locally Led Conservation Training Series**

## **#2 Making LWG Informed**



How to use key points from scientific data, existing plans, and partners to inform the LWG and to create a local conservation action plan.

Agenda and Presenters	Key Ideas and Notes
Welcome, Purpose, Goals, and Game LeAnn Buck, MASWCD Keith Klobec, NRCS Donna Rae Scheffert, LeadershipTools Lisa Hinz, U of MN Extension	
Utilizing a Natural Resources Inventory Ryan Galbreath, NRCS	Website Resources: https://www.nass.usda.gov/Statistics_by_State/Minnesota/index.php National Resources Inventory   NRCS Minnesota (usda.gov)
Aligning 1W1P Planning, SWCD Comprehensive Plans, and LWGs Greg Johnson, NRCS Darren Newville, SWCD	

Sharing Technical Findings and Reports with the Public and LWGs  Justin Hanson, SWCD	
Discussion:  How do I share scientific information as part of a planning conversation about conservation?	
Developing a Conservation Needs Assessment and Action Plans Cory Walker, NRCS Keith Kloubec, NRCS	

#### HOSTING EFFECTIVE LOCALLY LED CONSERVATION MEETINGS

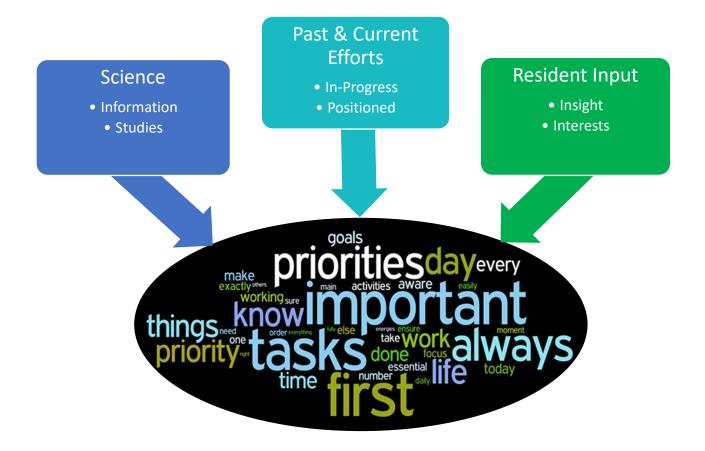
# Priority Setting with Science, Effort Analysis, and Local Input





Priority setting for your conservation work can be thought of as a 3-legged stool. First, science grounds you with information and studies that inform your potential work focus. The second leg looks at your efforts: past and present as well as what is positioned to be done next. The third leg seeks resident input to garner insights and gauge interest in various potential priorities.

These 3 legs come together to create a seat where your conservation priorities can land – AND take a place at the table.



# Minnesota Watershed Planning and Implementation









State **HUC-8** 

**HUC-12** 

Site

**Programs and** strategies

Initial assessments, goals, priorities, & strategies

Identify specific sources, critical areas, practices and activities

**Landowner practice** selection, pre-design and cost analysis

- Nutrient Reduction Strategy
- Nitrogen Mgmt. Plan
- WRAPS
- TMDLs
- 1W1P
- GRAPS
- Comprehensive Plans
- NRCS Watershed Assessments – NWQI/ MRBI
- MPCA Section 319 9-**Element Plans**

- NRCS Conservation **Planning Process**
- WHP/ DWMSA

## Stakeholder engagement and Partnership building

Assess condition



Model impacts



landscape data

MN Water Mgmt. Framework - NRCS Areawide Planning - Small WS Planning

- Monitoring
- IBIs
- NBS, BEHI/BANCS
- P Index
- WHAF
- NP-BMP
- HSPF, SWAT, SPARROW

- GSSHA, P8, WinSLAMM
- HSPF-SAM, EBI, WEPP
- BATHTUB, RUSLE2
  - Land survey
  - Soil survey
  - Vegetation survey

- Hydroconditioned LiDAR elev. data
- Terrain analysis
- PTMApp
- ACPF
- Zonation

- Landowner contacts
- BMP manual
- Cost-benefit
- NRCS GIS toolbox
- Agren design tool



### Tier 1 Issues

Tier 1 are the most important issues that will be the focus of implementation efforts in the 10-year plan. They had a "high" ranking in at least one planning region and lined up with NRCS Resource Concerns.

Planning Region priority is noted with: High; Medium; Low.

		C	NRCS Resource	Planning
Category	Resource	Issue Statement	Concern	Region
•••	Drinking water	Shallow <b>groundwater</b> is highly vulnerable to <b>contamination</b> from numerous sources.	Water Quality Degradation – Excess nutrients in groundwater	
**	Streams, Lakes	Soil erosion and runoff can cause sediment and nutrient enrichment and low dissolved oxygen in lakes and streams.	Soil Erosion – sheet rill; Water Quality Degradation – Excessive sediment in surface waters	
	Streams	<i>E.coli</i> impairments in streams can make them unsafe for recreation.	Water Quality Degradation - Excess pathogens/chemicals from manure, biosolids or compost	
**	Lakes	Projected development pressure and conversion of seasonal properties to fulltime homes has the potential to negatively affect lake water quality and riparian habitat.	Water Quality Degradation – Excess nutrients in surface water	
	Agricultural land	Soil health has the potential to impact agricultural productivity and water-holding capacity.	Soil Erosion – Organic matter depletion	
	Forests, Grasslands	Fragmentation and degradation of upland habitat by changes in land use can cause a loss of perennial vegetative cover and impact land resilience, habitat, surface, and ground water quality.	Inadequate Habitat for Fish & Wildlife – Habitat Degradation & Habitat Continuity	

Source: Leaf, Wing, Redeye One Watershed One Plan at https://www.eotswcd.org/one/LWR1W1P/

Issue Prioritization 29

### Local Work Group Resources for Conservation Needs Assessments FY2021

Local Working Groups (LWG) provide recommendations on local natural resource priorities and criteria for USDA conservation activities and programs. The below references and data sources can be used to provide an inventory of local data useful in developing your Conservation Needs Assessment and Conservation Action Plan. The information presented in your Conservation Needs Assessment can be used to facilitate further LWG discussions and provide a justification for your prioritizations. Identifying other sources of data and input from Local Work Group participants is also strongly encouraged.

#### Information on NRCS Resource Concerns, Land Uses and Conservation Practices

NRCS Resource Concern Fact Sheets: Fact Sheets

Spreadsheet listing NRCS Resource Concerns and Categories: RC Spreadsheet

Conservation Practice Standards and Conservation Practice Overviews: FOTG Section IV

NRCS Land Use Definitions: National Planning Procedures Handbook (NPPH)

#### **Existing Plans**

**SWCD Annual Reports**: Located on the SWCD Websites

**County Comprehensive Plans:** These plans often encompass the entire county and can provide data on demographics, natural resources, and more.

**SWCD Local Water Plans:** County water plans are prepared by counties address water problems in the context of watershed units and groundwater systems and cover the area within a county. Located on the SWCD Websites

**One Watershed, One Plan:** One Watershed, One Plan (1W1P) is a program through the Board of Water and Soil Resources (BWSR) that supports partnerships of local governments in developing prioritized, targeted, and measurable implementation plans. <a href="https://example.com/linearing/linearing/">1W1P</a>

**Source Water Protection:** The MN Department of Health has a Web Map Viewer with information available on wellhead protection areas, Drinking Water Supply Management Areas. The site also contains additional data and maps useful in identification of source water priorities in each county. MDH SWP

**Minnesota Pollution Control Agency (MPCA):** MPCA website has resources available on watershed descriptions, monitoring and assessment reports, restoration, and protection strategies, and more. <a href="https://www.pca.state.mn.us/water/watersheds">https://www.pca.state.mn.us/water/watersheds</a>

Additional and more detailed information on Watershed Restoration and Protection Strategies (WRAPS) can be found at MPCA WRAPS.

### Local Work Group Resources for Conservation Needs Assessments FY2021

#### **Land Use Data**

**The MN Natural Resources Atlas** has an interactive map that provides a basic set of GIS tools for viewing, searching, and manipulating mapped data. Data includes maps of cropland, cropland productivity, feedlot locations, State Lands, precipitation, erosion risk, and much more.

https://mnatlas.org/gis-tool/

**The MN Geospatial Commons** has information on Feedlots, Springs, Wildfires, Fall Nitrogen Fertilizer Application Restrictions, Oak Wilt Range, plus more.

Geospatial Data: <a href="https://gisdata.mn.gov/group/environment">https://gisdata.mn.gov/group/environment</a>

#### **Agricultural Data**

**The USDA National Agricultural Statistics (NASS)** site has agricultural data for each county. Data includes number of farms, type of farms, farms by size, total cropland, crops grown, livestock types, economic values of crops and more.

USDA - National Agricultural Statistics Service - Minnesota

The NASS Census of Agriculture Report has county specific reports. 2017 Census by State - Minnesota | 2017 Census of Agriculture | USDA/NASS

#### Other Data

**Minnesota State Demographic Center:** This site has county populations by age, sex, race and Hispanic Origin along with data on trends. https://mn.gov/admin/demography/data-by-place/

#### **MDA Emerging Farmers in Minnesota Report:**

https://www.leg.mn.gov/docs/2020/mandated/200237.pdf

Invasive Species: https://www.dnr.state.mn.us/invasives/index.html

**Endangered Species:** FWS <a href="https://www.fws.gov/midwest/endangered/lists/minnesot-cty.html">https://www.fws.gov/midwest/endangered/lists/minnesot-cty.html</a> and MN DNR <a href="https://www.dnr.state.mn.us/ets/index.html">https://www.dnr.state.mn.us/ets/index.html</a>

MN Scientific and Natural Areas: <a href="https://www.dnr.state.mn.us/snas/index.html">https://www.dnr.state.mn.us/snas/index.html</a>

<u>Clean water implementation project technical assistance</u> from regional/field staff with deep local knowledge of hydrology and stream geomorphology

<u>Watershed analysis and modeling</u> using the Gridded Surface Subsurface Hydrological Analysis (GSSHA) model to simulate changes in climate and land use, especially related to agricultural conservation practices

<u>Watershed Health Assessment Framework</u>, a web map that makes it easy to explore and analyze subwatershed-scale (and major watershed and basin scales) information related to water quality and other aspects of watershed health, including more than 20 different watershed health index scores

# Our Tips for

how to share scientific information as part of a planning conversation about conservation



# Our Tips for

# how to share scientific information as part of a planning conversation about conservation

Preplan with NRCS/SWCD to narrow down the Resource Concerns so they aren't overwhelming coming into the LWG meeting.

I have sent a survey out with the invite to see what people are most interested in then we can prepare based on the survey and or have some extra info from some producers that cant not attend the meeting.

Understand what people know before sharing information. Ask people what they know.

Relate new knowledge to what people already know. Have landowner partners do presentations.

**Stories** 

Had multiple
"Waterside Chats"
or public meetings
in the Zumbro to try
to convey info to the

Distinguish
between collecting
information on
values of residents
and the science of
how to achieve
goals.

a shared language is important. A misunderstanding of a term or action can derail a conversation.

Sometimes our partners at the table come forth of scientific data, when this happens, we do our best to break that data down into common language to better relate to the producers.

Don't provide too many details. Provide basic information and let the group have a conversation Maps of BMP locations

Easy to-understand charts, graphs, maps -visuals

If someone brings scientific data, presenting in a visual form is nice like a map.

Videos - great way to quickly provide a ton

information.

MDH Well monitoring results and locations. Use of Rusle2 and WinPST to how conservation results.

Use WRAPS data, maps and locations