It's About The People: Community Perceptions of Lake Wausau

Aaron W. Thompson, Assistant Professor, College of Natural Resources UW-Stevens Point

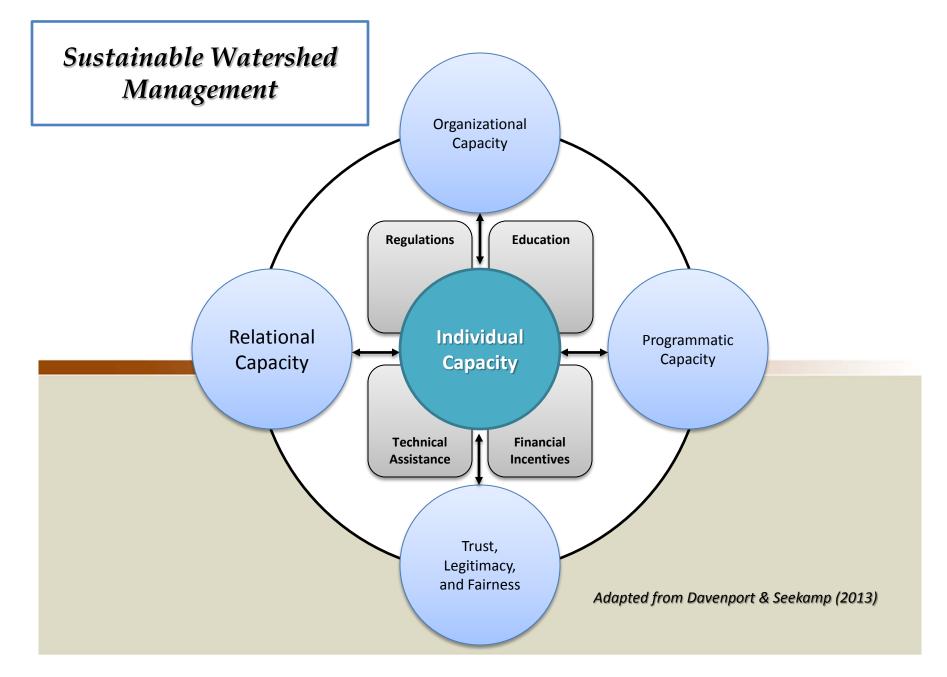
Land Use Specialist, UW-Extension Center for Land Use Education "Lake Wausau is a wonderful resource for the Wausau area that has been neglected. I applaud the lake association for their dedication to getting this done...

Just think what this could be!"

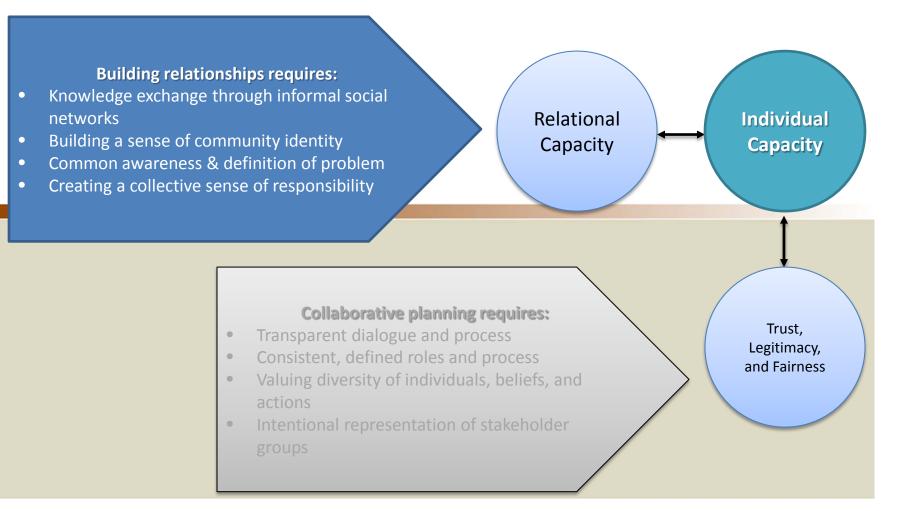
(Anonymous Survey Response)



University of Wisconsin-Stevens Point



Sustainable Watershed Management



Lake Wausau Project Phase II, Task 6

Social & Economic Values Survey

Lake Wausau Community Survey

University of Wisconsin-Stevens Point College of Natural Resources

As a resident of one of the communities that surround Lake Wausau you have been randomly selected to receive a survey concerning efforts to improve the community resource of Lake Wausau. This survey is being conducted by faculty in the College of Natural Resources at the University of Wisconsin–Stevens Point in partnership with the Lake Wausau Association and sponsoring local governments. Survey results will help these groups understand how residents in the Wausau area interact with and value Lake Wausau and the Wisconsin River. Results will inform ongoing research and activities to improve water quality in Lake Wausau. All results will be **kept confidential** and if you have any concerns about the treatment of research participants please contact the UWSP Institutional Review Board that can be reached at (715) 346-4598.

Your voluntary participation in this survey is a chance to be a part of the process of determining the future for Lake Wausau. Please take the time to share your views about this important community resource by completing and returning the survey in the enclosed postage paid envelope. If you have questions about the survey, please feel free to contact one of the members of the research using the informations provided below.

Dr Melinda Vokoun

melinda.vokoun@uwsp.edu

Assistant Professor

Thank you for your assistance,

Dr. Aaron Thompson Assistant Professor aaron.thompson@uwsp.edu 715.346.2278

Dr. Kristin Floress Assistant Professor kristin.floress@uwsp.edu

The survey must be completed of	y an adult member of your household 18 yea	ars of age or older.
Please mark all answers clearly, Example "A"	in pen or pencil, as indicated below. Example "B"	
	The Lake Wausau Association	on
Have you heard of the Lake Wa	usau Association?	
-		
Never heard of them	Heard of them, but don't know what they do	Heard of them, and know what they do

Strongly Disagree	-3 -2	-1	0	1	2	3	Strongly Agree
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Study	Design: Set up to achieve	Lake Wausau Community Survey
,	U I	University of Wisconsin-Stevens Point
	30% response rate	College of Natural Resources
	5 Wave Mailing Process:	As a resident of one of the communities that surround Lake Wausau you have been randomly selected to receive a survey concerning efforts to improve the community resource of Lake Wausau. This survey is being conducted by faculty in the College of Natural Resources at the University of WisconsinStevens Point in partnership with the Lake Wausau Association and sponsoring local governments. Survey results will help these groups understand how residents in the Wausau area interact with and value Lake Wausau and the Wisconsin River. Results will inform ongoing research and activities to improve water quality in Lake Wausau. All results will be kept confidential and if you have any concerns about the treatment of research participants please contact the UWSP Institutional Review Board that can be reached at (715) 346-4598.
Wook	Contact #1: Address	
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13	Introduction	Thank you for your assistance,
	Contact #2: Survey Booklet	Dr. Aaron Thompson Assistant Professor aaron thompson@uwsp.edu 715.346.2278
	Contact #3: Reminder Postcard	PLEASE READ BEFORE BEGINNING THIS SURVEY: The survey must be completed by an adult member of your household 18 years of age or older. Please mark all answers clearly, in pen or pencil, as indicated below. Example "A" Example "B"
	Contact #4: 2 nd Survey	
		The Lake Wausau Association Have you heard of the Lake Wausau Association?
	DUOKIEL	Never heard of them Heard of them, but don't know what they do Heard of them, and know what they do
d 'eek	Contact #5: Reminder Postcard	Lake Wausau Association's (LWA) mission is "to protect, maintain, and enhance environmental and recreational values on Lake Wausau and its surroundings; to organize and conduct activities intended to maintain or improve the ecology, water quality, fishing, and recreational use of Lake Wausau." — lakewausau.org Do you agree with the priorities that the Lake Wausau Association has put forth in their mission statement?
ıly 013		Strongly Disagree -3 -2 -1 0 1 2 3 Strongly Agree
	o13 d eek lly	Process:Week ne o13Contact #1: Address Screening Letter / IntroductionContact #2: Survey BookletContact #3: Reminder PostcardContact #4: 2 nd Survey Booklet

Topics Covered:

Introductory Questions -Lake Wausau Association -Water Quality Knowledge

Governance & Policy

Community Perspectives

Economic Variables: Tied to lake activities

Mapping: Issues, improvement, recommendations

Demographics

Lake Wausau Community Survey

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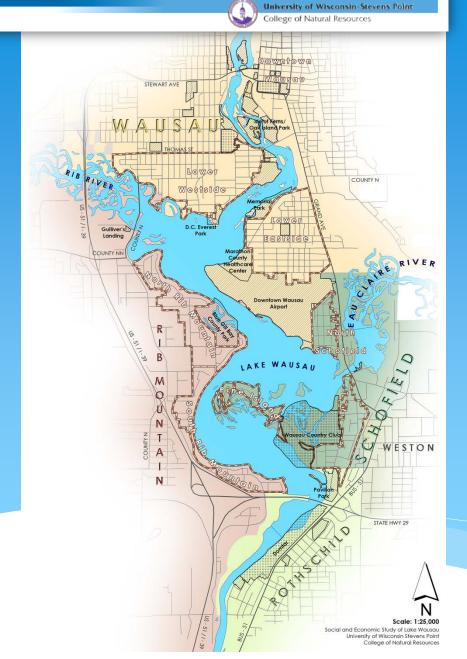
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Have you heard of the Lake Wa	usau Association?				
Never heard of them	Heard of them, but know what they do	don't		of them, and what they do	
Lake Wausau Association's (LW values on Lake Wausau and its st the ecology, water quality, fishin	urroundings; to organize	and conduct activ	ities intended	l to maintain oi	
Do you agree with the priorities	that the Lake Wausau A	sociation has pu	t forth in their	r mission state	men

Lake Wausau Community Survey =



Sample:

Developed 'in-house' using parcel data provided by Marathon County focusing on homeowners within these communities

Total: 850 participants Representative sample: -160 randomly selected households from each community: Wausau, Schofield, Rothschild, & Rib Mountain

Oversample: -210 randomly selected households from near lake neighborhoods



College of Natural Resources



	Sample	N	Response Rate
Wausau	156	56	35.90%
Schofield	156	62	39.74%
Rothschild	158	68	43.31%
Rib Mountain	159	83	52.20%
Near Lake			
Neighborhoods	207	99	47.83%
Overall	836	358	44.31%



LWA Familiarity Results:

(-)There is a general lack of familiarity with the Lake Wausau Association – **41% of respondents had not heard of the organization.**

(+)Respondents are very supportive of the abbreviated mission statement included in the survey – 82% agreed with their priorities.

The Lake	Wausau Association

Have you heard of the Lake Wausau Association?

Never heard of them	Heard of them, but don't know what they do	Heard of them, and know what they do
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Lake Wausau Association's (LWA) mission is "to protect, maintain, and enhance environmental and recreational values on Lake Wausau and its surroundings; to organize and conduct activities intended to maintain or improve the ecology, water quality, fishing, and recreational use of Lake Wausau." — lakewausau.org

Do you agree with the priorities that the Lake Wausau Association has put forth in their mission statement?





Perception of the resource:

+Respondents ranked 30 statements representing various attributes of the lake and surrounding community facilities

+Analyzed using a 'Inverted-R' factor analysis procedure (Thompson et al., 2013)

Community Perspective towards Lake Wausau

Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.	Strongly Disagree	Disagree	ZNeutral	Agree	VS Strongly Agree
Lake Wausau vastly adds to the beauty of the community and its surroundings.	-2	-1	0	1	2
It is important for community members to take an active role in determining the future of Lake Wausau.	-2	-1	0	1	2
I choose to spend my time elsewhere because of the lack of recreation facilities on the lake.	-2	-1	0	1	2
Providing better habitat for fish and wildlife motivates me to support efforts to improve Lake Wausau.	-2	-1	0	1	2



Why are we looking at perceptions of Lake Wausau?

College of Natural Resources

Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

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Statement #1: Lake Wausau adds vastly to the beauty of Wausau and its surroundings.

Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #2: It is important for community members to take an active role in determining the future of the Lake Wausau.

Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #7: The scenic and natural beauty of Lake Wausau contributes to our community's ability to attract new residents and employers.

Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

University of Wisconsin-Stevens Point

Statement #8: Local funding to revitalize the lake is a great investment in our future.

Perception of the resource:

- + 'Inverted-R' process revealed 4 distinct belief systems among respondents
- + Process also identified commonalities, including that <u>all groups</u>:
- 1. Strongly agree that Lake Wausau adds to the beauty of the community (Item #1).
- 2. Strongly agree that community members must take an active role in the future of Lake Wausau (Item #2).
- 3. Agree that Lake Wausau contributes to the community's ability to attract new residents and employers (Item #7).
- 4. Agree that local funding to revitalize Lake Wausau is a good investment in the future (Item #8).



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #3: I choose to spend my time elsewhere because of the lack of recreation facilities on the lake.



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #23: Spending time on Lake Wausau has always been a tradition; otherwise, I would prefer to recreate on other lakes.



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #25: Lake Wausau has some of the best fishing in the area.



Perception of the resource:

Group 01: At home on Lake Wausau

Residents who hold this view **enjoy spending time on Lake Wausau**, seeing plentiful outdoor recreation options and good fishing as some of the high points of their time spent here. For many they view **recreating at Lake Wausau as part of a tradition that keeps them coming back** over and over again. They disagree with others who think the lake is dirty and getting worse and for most hold the opposite **opinion that the water is safe for recreating and they are willing to eat fish caught there.** These individuals believe that the parks on Lake Wausau represent some of the most beautiful places in the county and disagree that there is an unpleasant odor that prevents them from recreating here. When it comes to who is responsible this group **sees that both the DNR and local government have appropriately responding** to the conditions on Lake Wausau.

Percentage of Community Responses Wausau: 37.0% Schofield: 56.9% Rothschild: 54.1% Rib Mountain: 41.9% Near Lake: 52.0%



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #30: The lake is important because it supports manufacturing in our community.



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #9: I like outdoor activities, but I don't recreate on the lake.



Perception of the resource:

Group 02: Hard working Lake Wausau

There are a couple of similarities between residents who hold this view and Group 1 as both believe that Lake Wausau has plentiful outdoor recreation opportunities and that the parks along the lake are some of the most beautiful places in the county. Outside of these areas individuals in group 2 are less motivated by providing fish and wildlife habitat than other groups and instead believe that the lake is important because of the role it plays in supporting manufacturing within the community. They enjoy outdoor recreation, but don't choose to spend their time on the lake. However, this slight to recreating here doesn't seem to be linked to concerns over smell or water quality issues. They are also the least likely to support stronger regulations of activities to protect the enjoyment of the lake for all users and are the least supportive of the i Wausau: 21.7% When it comes to local funding Percentage of Schofield: 10.3% future, but support is lower tha Community Rothschild: 16.4% Responses

Rib Mountain: 20.2% Near Lake: 17.3%



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #15: Lake Wausau is a good place for doing the types of activities I enjoy most.



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #12: When recreating on the lake my enjoyment is frequently disrupted by other users.



Group 03: When recreating, it's not on Lake Wausau

Negative experiences and perceptions of the recreational aspects of Lake Wausau dominate the views of members of this group. In particular, they view the lake as lacking recreational facilities and feel that there is too much competition (or crowding) that makes it difficult to enjoy what is here. They view the parks as being less safe than members of other groups, which in combination with the other factors may explain why this group that does enjoy outdoor recreation chooses to spend their time elsewhere. Put simply they don't see the lake as a good place for doing the things they enjoy most, citing poor fishing opportunities and frequent disruption from other users as reasons they go to other lakes. This group seems less connected to the lake as they disagree that spending time here is a tradition or that the lake plays a role

in building community between support efforts to improve the I and wildlife habitat, but they **als reflection of local government** problems.

Percentage of Community Responses Wausau: 17.4% Schofield: 10.3% Rothschild: 16.4% Rib Mountain: 12.1% Near Lake: 14.7%



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #14: The lake is dirty and seems to be getting worse.



Please describe your level of agreement on the following scale for each of the statements that relate to general views of Lake Wausau; in general the questions relate to areas on, along, or around the lake and Wisconsin River.

Statement #16: The condition of the lake has gotten so bad that I only feel safe looking at the water.

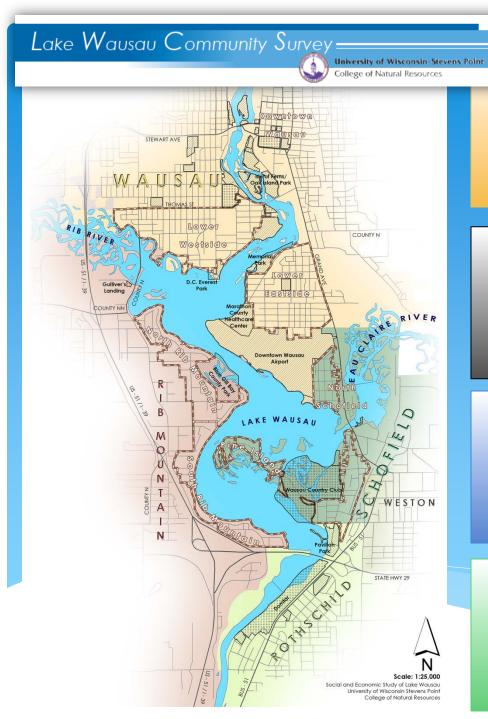
Perception of the resource:

Group 04: It's dirty and the time has come to fix Lake Wausau

The defining feature of those who hold this view is a **strong belief that Lake Wausau is dirty and seems to be getting worse**. They are the only group who to **disagree that water quality is improving** and are the most likely to believe that the condition of the lake is so bad that **it is now only safe to look at the water**. This view is supported by their perception of the **lake having a strong odor** and are the **least likely to feel safe eating fish from the lake**. Similar to group 3 members of this group see a lack of recreational facilities on the lake, but are largely motivated by the need to enhance fish and wildlife habitat. They are also **the most critical of local government's response** to the condition of the lake, but among the most supportive of DNR's involvement in managing these issues.

> Percentage of Community Responses

Wausau: 13.0% Schofield: 15.5% Rothschild: 6.6% Rib Mountain: 13.5% Near Lake: 14.7%



Wausau: 37.0%Group 01: TraditionSchofield: 56.9%Rothschild: 54.1%Rib Mountain: 41.9%Near Lake: 52.0%

Wausau: 21.7% Group 02: Industry Schofield: 10.3% Rothschild: 16.4% Rib Mountain: 20.2% Near Lake: 17.3%

Group 03: Not on Lake Wausau Wausau: 17.4% Schofield: 10.3% Rothschild: 16.4% Rib Mountain: 12.1% Near Lake: 14.7%

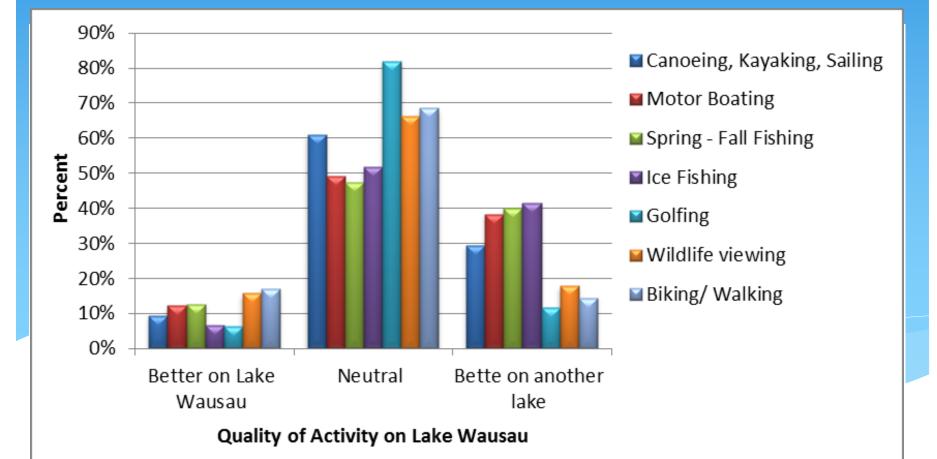
Group 04: Dirty

Wausau: 13.0% Schofield: 15.5% Rothschild: 6.6% Rib Mountain: 13.5% Near Lake: 14.7%

Recreation Results:

-Generally there was less recreational activity than anticipated on the Lake, resulting in modest number for participation & expenditure in activities

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MELINDA



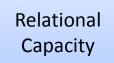
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MELINDA

Sustainable Watershed Management

Building relationships requires:

- Knowledge exchange through informal social networks
- Building a sense of community identity
- Common awareness & definition of problem
- Creating a collective sense of responsibility



Individual Capacity

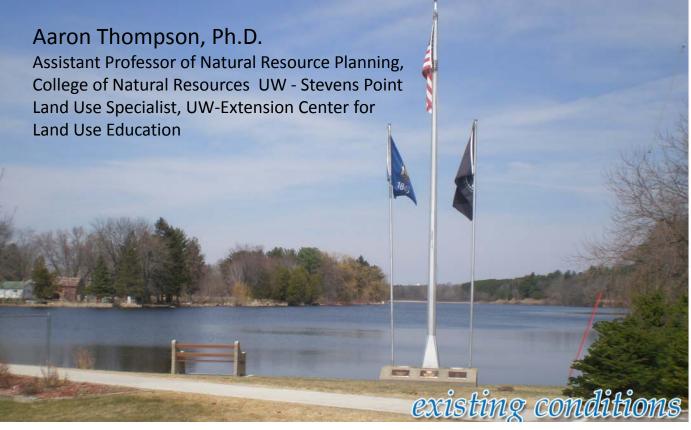
Collaborative planning requires:

- Transparent dialogue and process
- Consistent, defined roles and process
- Valuing diversity of individuals, beliefs, and actions
- Intentional representation of stakeholder groups

Trust, Legitimacy, and Fairness

AMHERST MILLPOND: Making Community Decisions







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What we know about collaboration

Better, less divisive decision can be made:

AVOID QUICK DECISIONS: a community needs adequate time to understand dams, explore options, and work toward consensus

PROCESS IS GOAL FOCUSED: a community that first decides on what values are the most important and works toward these goals can benefit from a more flexibility and a broader range of options; the alternative usually forces a community into a false choice between fixed options

DECISIONS MUST BE COMMUNITY DRIVEN: use

appropriate expertise when needed, but community members must be allowed to decide what is best and how to move forward

Sources: Johnson & Graber, 2002; Margerum, 2011



Collaborative Process: LEARNING

Public Meetings / Field Trips:

Opportunities to gather information and collect meaningful input





Resource Teams: *Small groups tasked with answering key questions / collecting input and reporting back to the community*

LEARNING: Example Goal Development



Collaborative Process: VISIONING

Can the coming changes (with or without the dam) result in a better future?



Public Visioning Sessions: Intensive community work sessions designed to get citizens directly involved in solving complex problems

Youth Involvement: and it can't hurt to involve those who most intensively use the resource too!



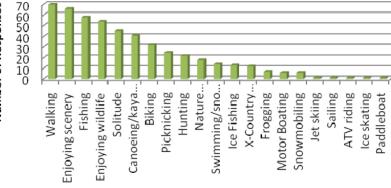
VISIONING: Desired Future Conditions

Can additional views of the pond / river be opened or enhanced to take advantage of the resource?

What needs to be done to enhance water-based recreation?

> Is there a possible way to create a trail loop for enhanced walking trail network?

What Activities Do You Enjoy At/Near the Millpond?



Number of Responses

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Collaborative Process: GROUNDING



Consultation: *Fact finding exploring costs, impacts, and feasibility of alternative solutions*

Visualizations: Photo simulations that provide an "educated guess" at what different options would look like and how they would function compared to existing conditions.

Collaborative Process: DECIDING

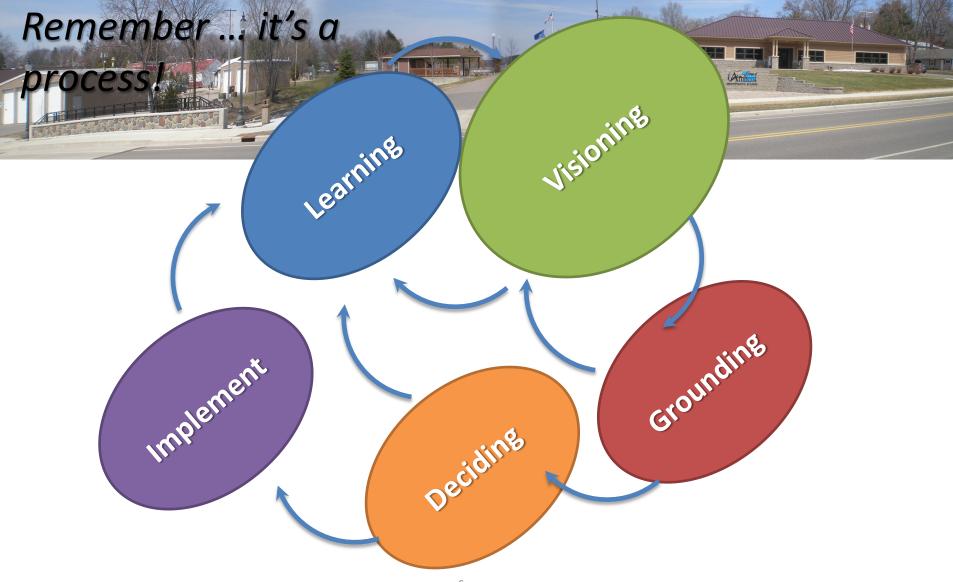


Developing Criteria: Use of goaldefined criteria to assess alternative land use scenarios

Seeking Input: Many ways to seek public feedback – emphasis needs to be on what the community as a whole will support, not simply who has the loudest voice

-Household surveys, resource commissions (quasi-governmental decision making boards), public meetings, advisory votes

Collaborative Process: IMPLEMENT & ADAPT



Sources:

Johnson, S.E., Graber, B. 2002. Enlisting the Social Sciences in Decisions About Dam Removal. BioScience 52 (8): 731-738.

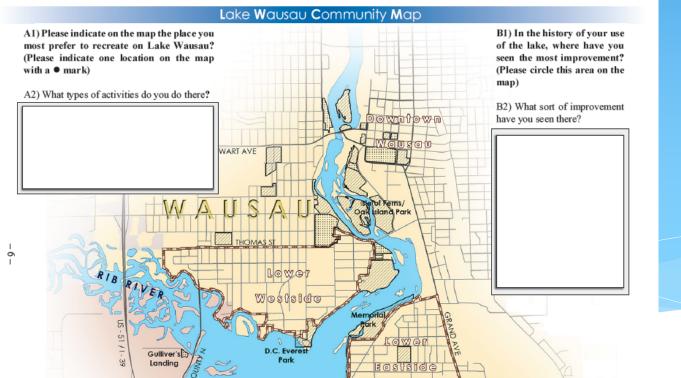
Margerum, R. 2011. Beyond Consensus: Improving Collaborative Planning and Management. Cambridge, MA: The MIT Press.

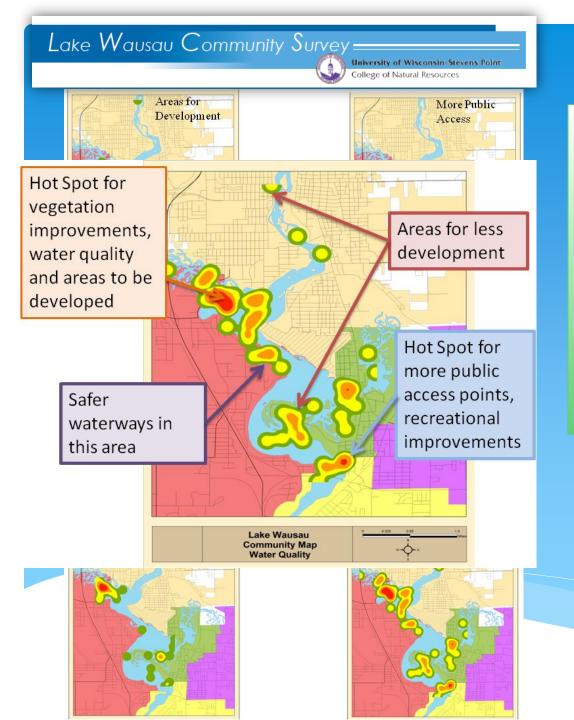


Mapping Local Knowledge:

Focused on three questions: ACTIVITIES, IMPROVEMENTS, PROBLEMS

-Good data on the mapping questions, but some respondents indicated that they just don't know the lake well enough to provide information

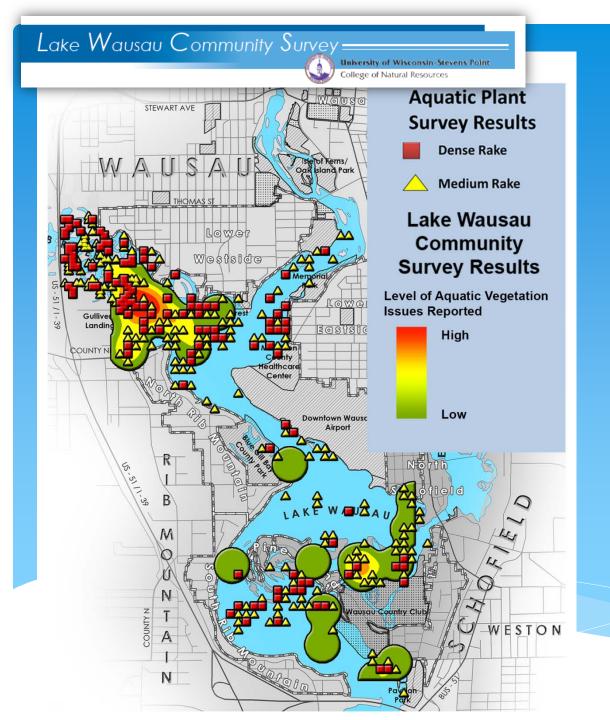




Results:

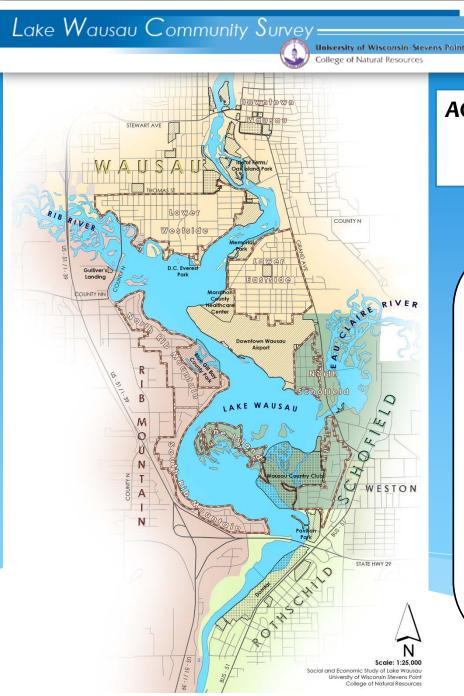
Grouped responses for improvement into themes:

+Areas for development +Areas for less development +Public access +Safer waterways +Water quality improvement +Vegetation improvement



Mapping Local Knowledge Results:

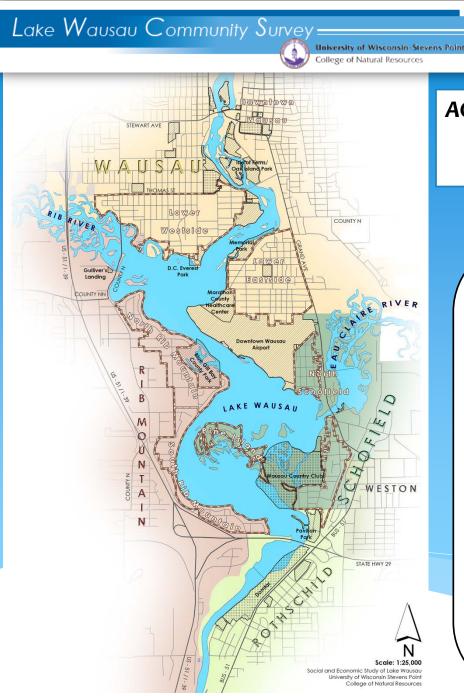
Created opportunities for overlaying SOCIAL & ECOLOGICAL Data



ACTIVITY: At your table ...

A1. Indicate on the map where you prefer to recreate on Lake Wausau

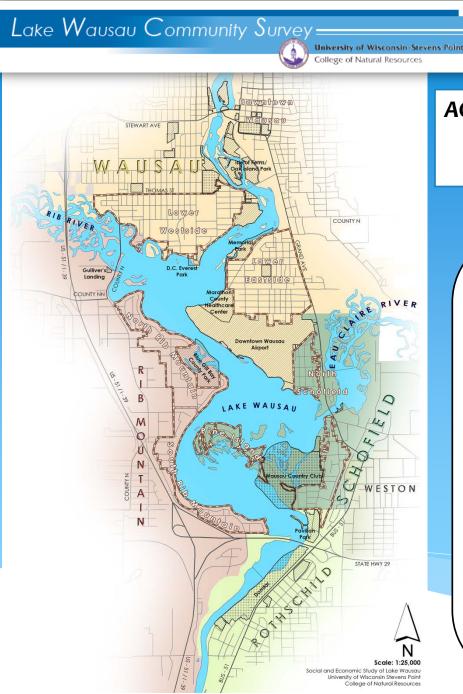
A2. What types of activities do you do there?



ACTIVITY: At your table

B1.Indicate on the map where you have seen areas of most improvement on Lake Wausau

B2. What Sort of Improvements have you seen there?



ACTIVITY: At your table

C1) Where is the most important place you would like to see improvement on the lake?

C2) What sort of improvements would you like to see?

Lake Wausau Community Survey =

Thinking in Your Own Backyard Activity:

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> Step 1 – Defining traditions (what keeps you coming back?) Step 2 – Engaging with lakeshore data to determine 'protected' activities/behaviors and those 'open to change' Step 3 – Solutions discussion



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Governance Study & Next Steps