SHORELAND STEWARDS

www.mishorelandstewards.org

Julia Kirkwood
Michigan Department of Environmental Quality
Water Resources Division Nonpoint Source Program

MICHIGAN NATURAL SHORELINE PARTNERSHIP

Near Shore Habitat Loss

#1 Threat to inland lakes

Lakes with POOR Nearshore habitat

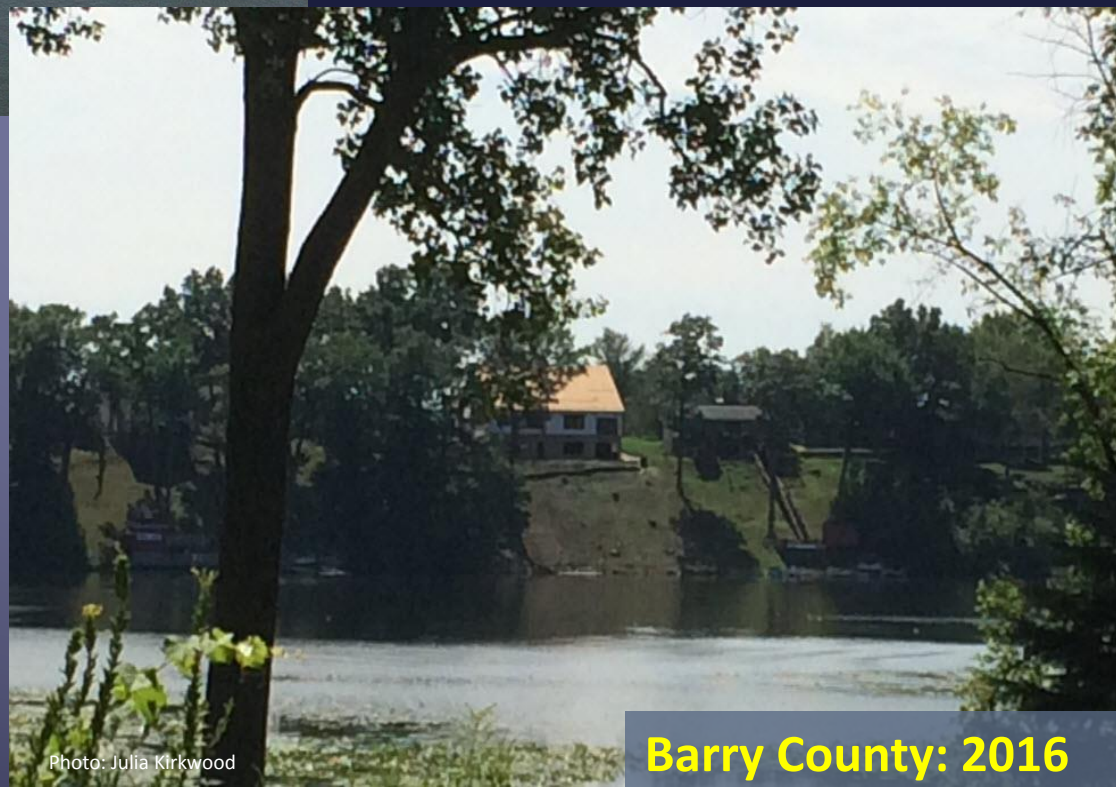
40%

Lakes with Poor nutrients & turbidity

3-4%

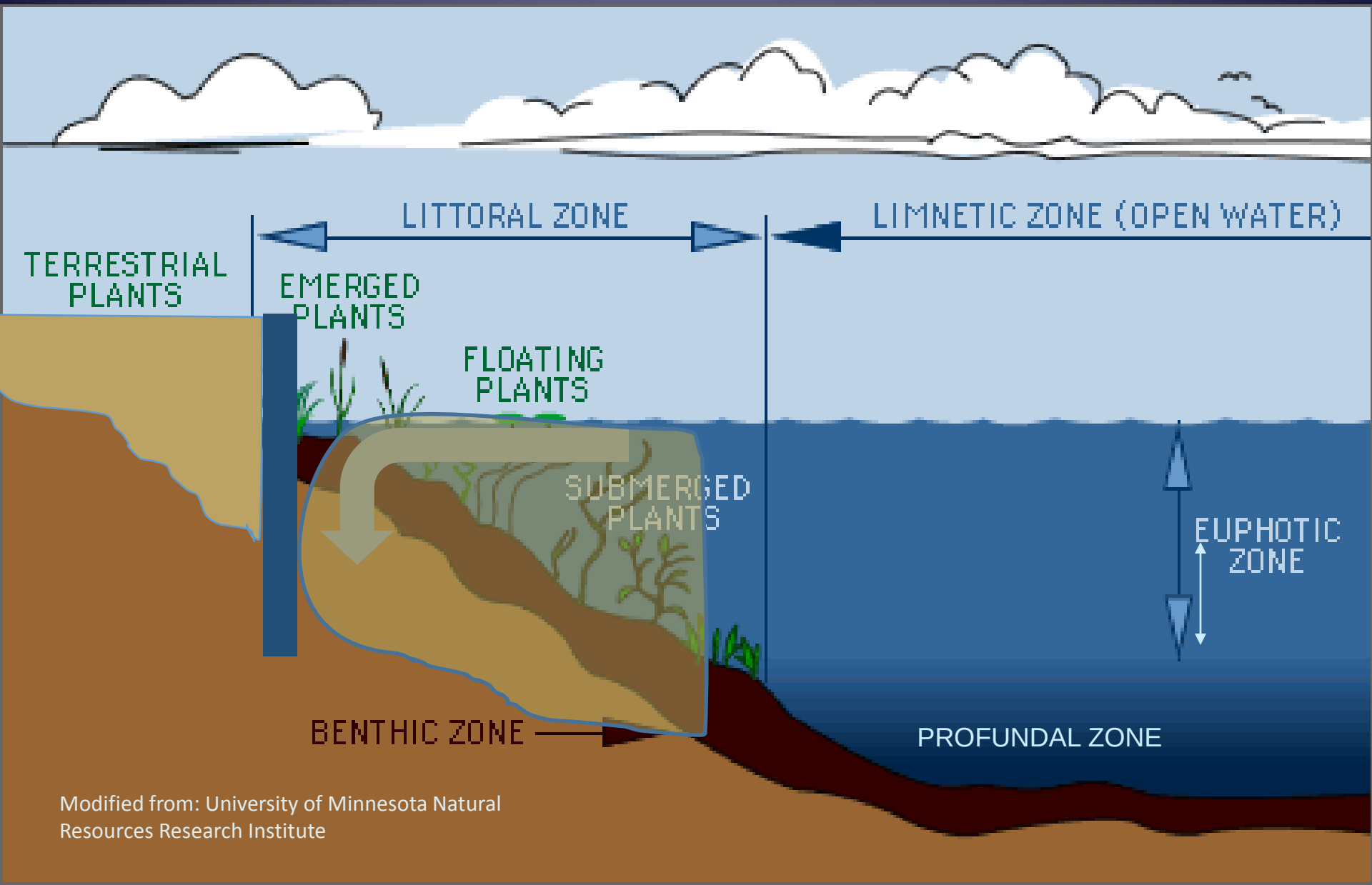
2007 National and Michigan Lake Assessment

Suburban landscaping meets the lakeshore



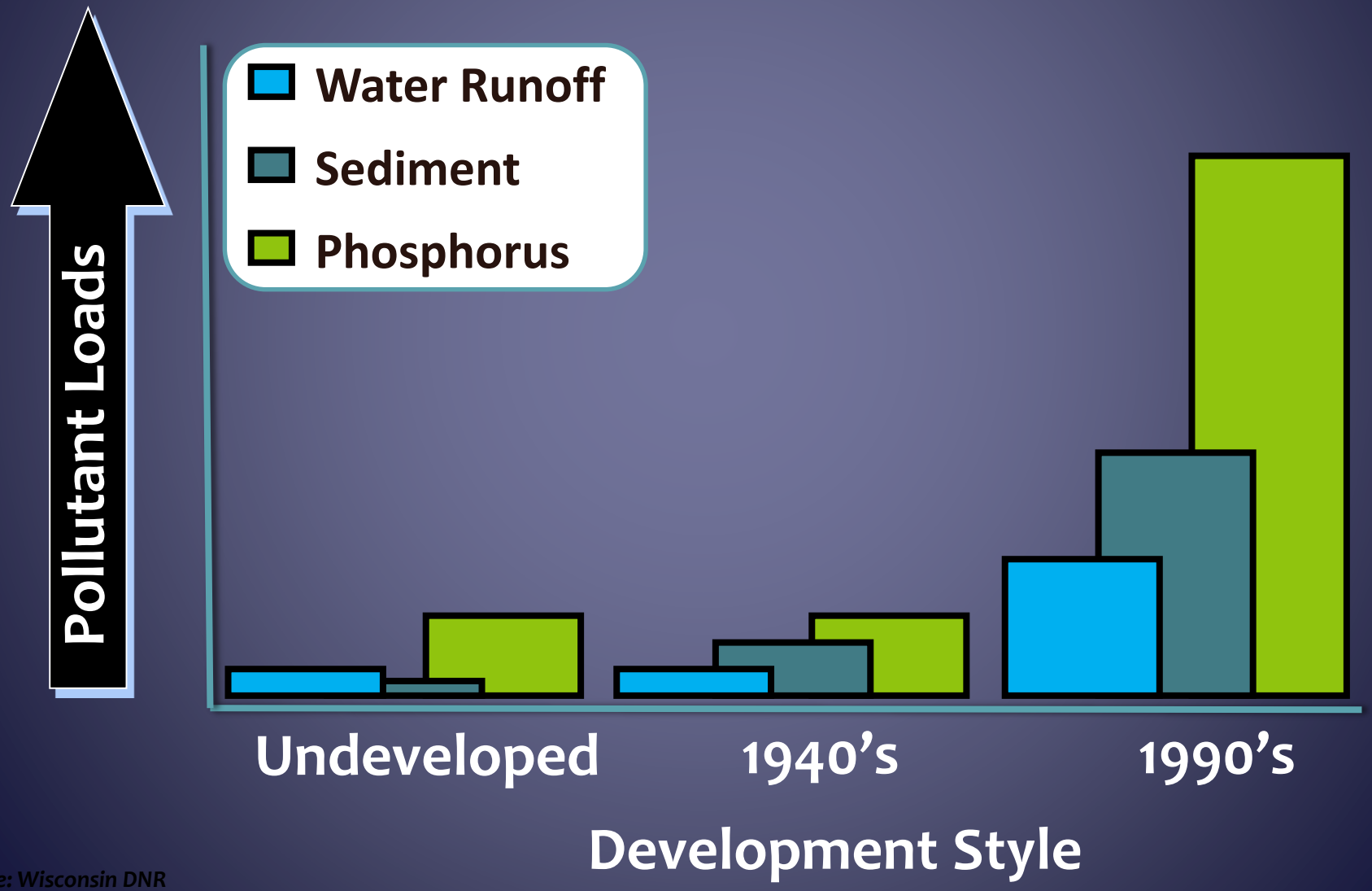
Barry County: 2016

The system becomes broken



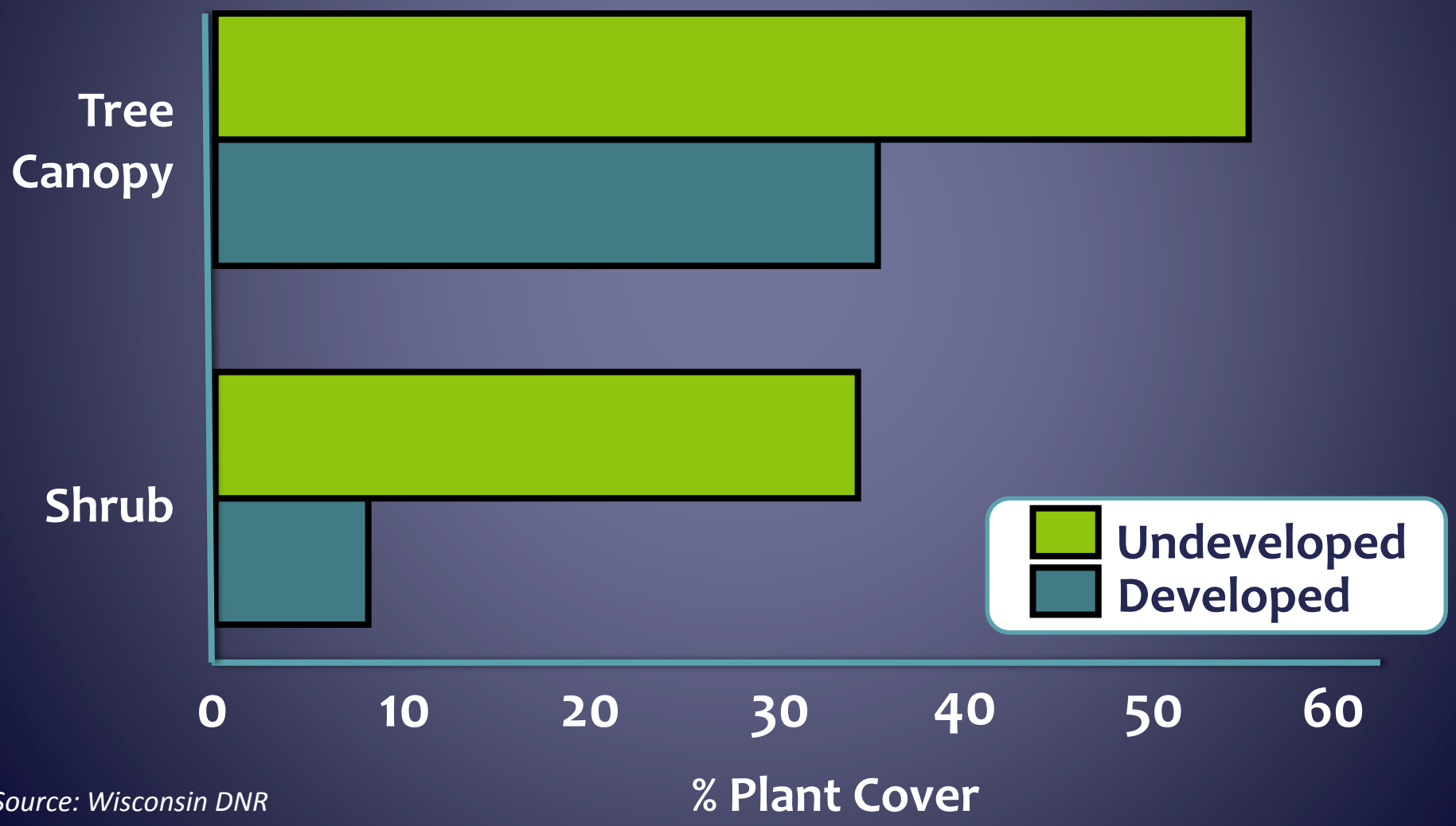
Modified from: University of Minnesota Natural Resources Research Institute

Impacts of Lake Development



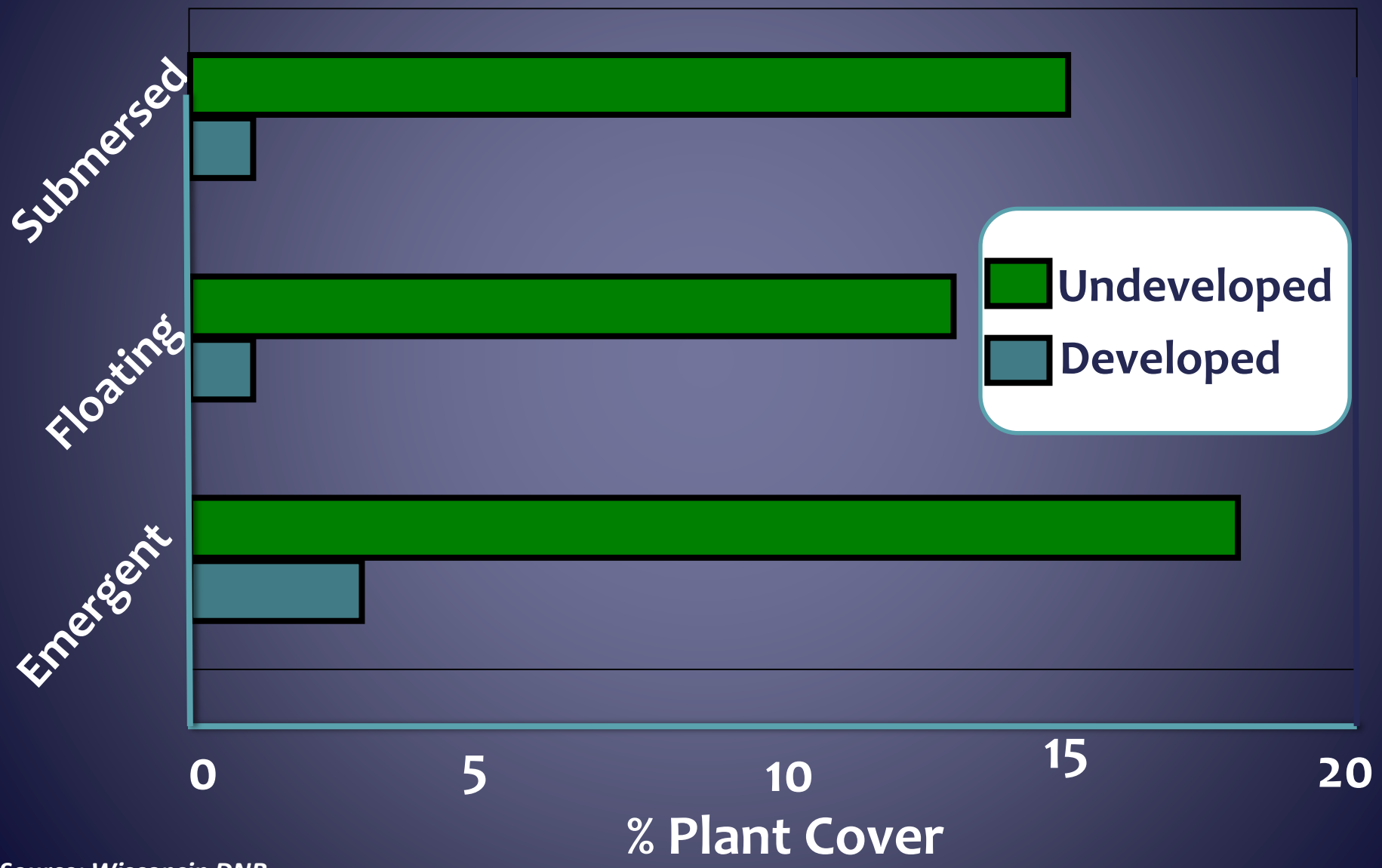
Source: Wisconsin DNR

What's Happened to Shoreland Plants?



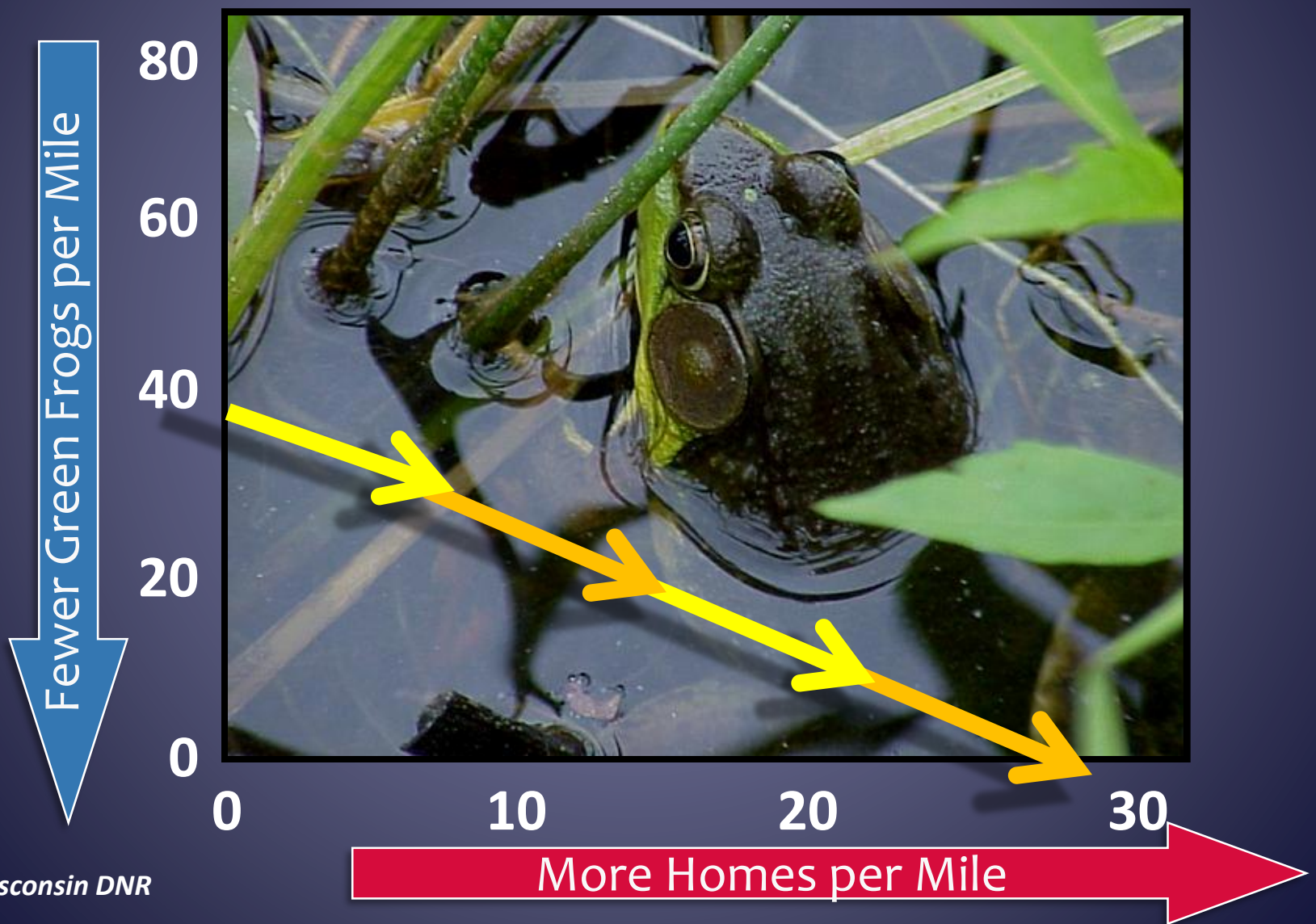
Source: Wisconsin DNR

What's Happened to Aquatic Plants?



Source: Wisconsin DNR

What's Happened to Frogs?



Source: Wisconsin DNR

We want to recognize YOU
for protecting Michigan's inland lakes.

Become a MI Shoreland Steward!

1. **Take the online questionnaire** to determine if your lakefront property qualifies as a gold, silver or bronze stewardship level.
2. **Learn important tips** on how you can protect your lake and improve your shoreland.
3. Once you complete the questionnaire, you can print a stewardship certificate. If you want to **let everyone else know you're a MI Shoreland Steward**, purchase a sign to display in your shoreland.

www.mishorelandstewards.org

Who Can Participate?

Inland Lake Property Owners

Not all will qualify

Properties with Seawalls?

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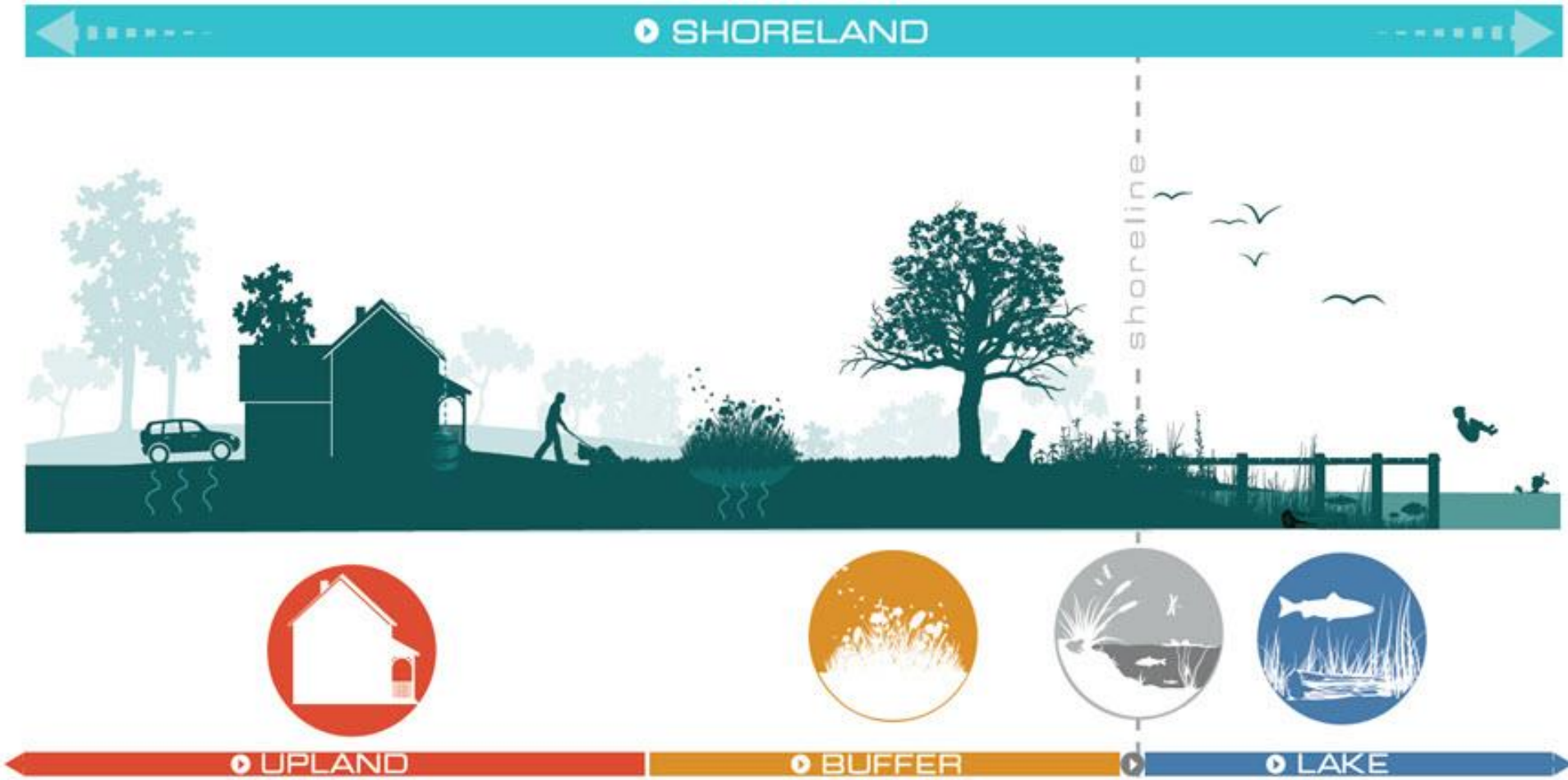
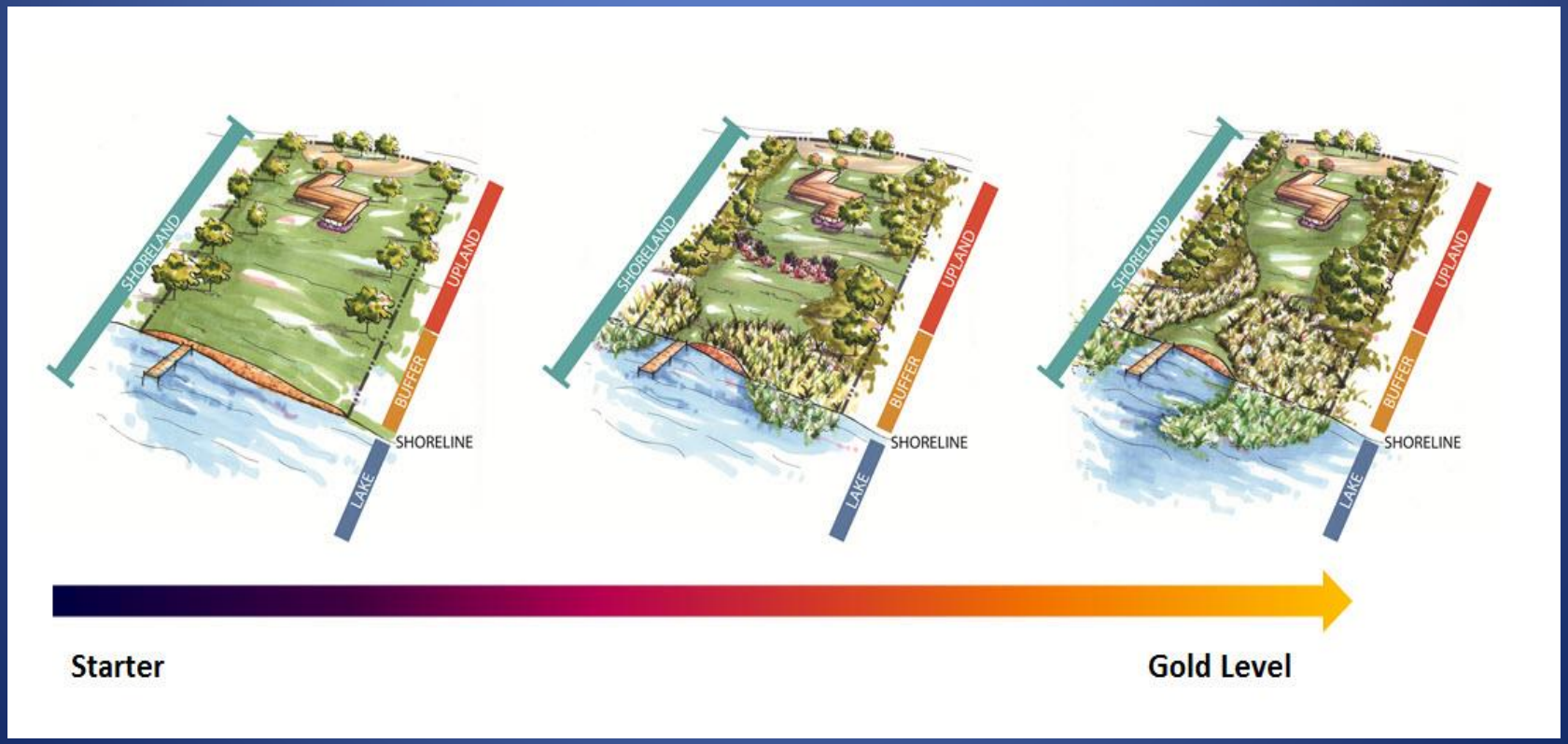
Four Zones

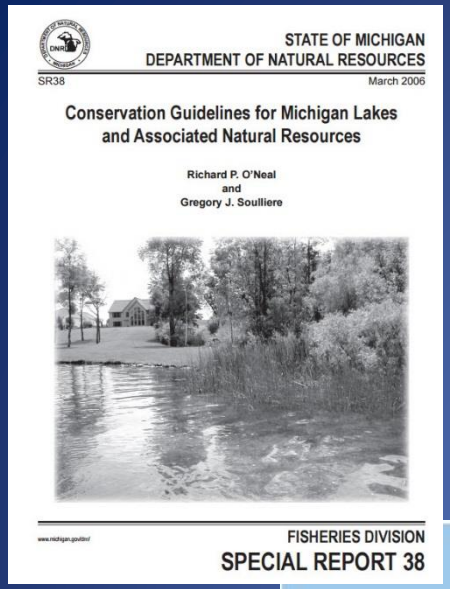
Lake Shoreline Buffer Upland



Three Recognition Levels

BRONZE SILVER GOLD




STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

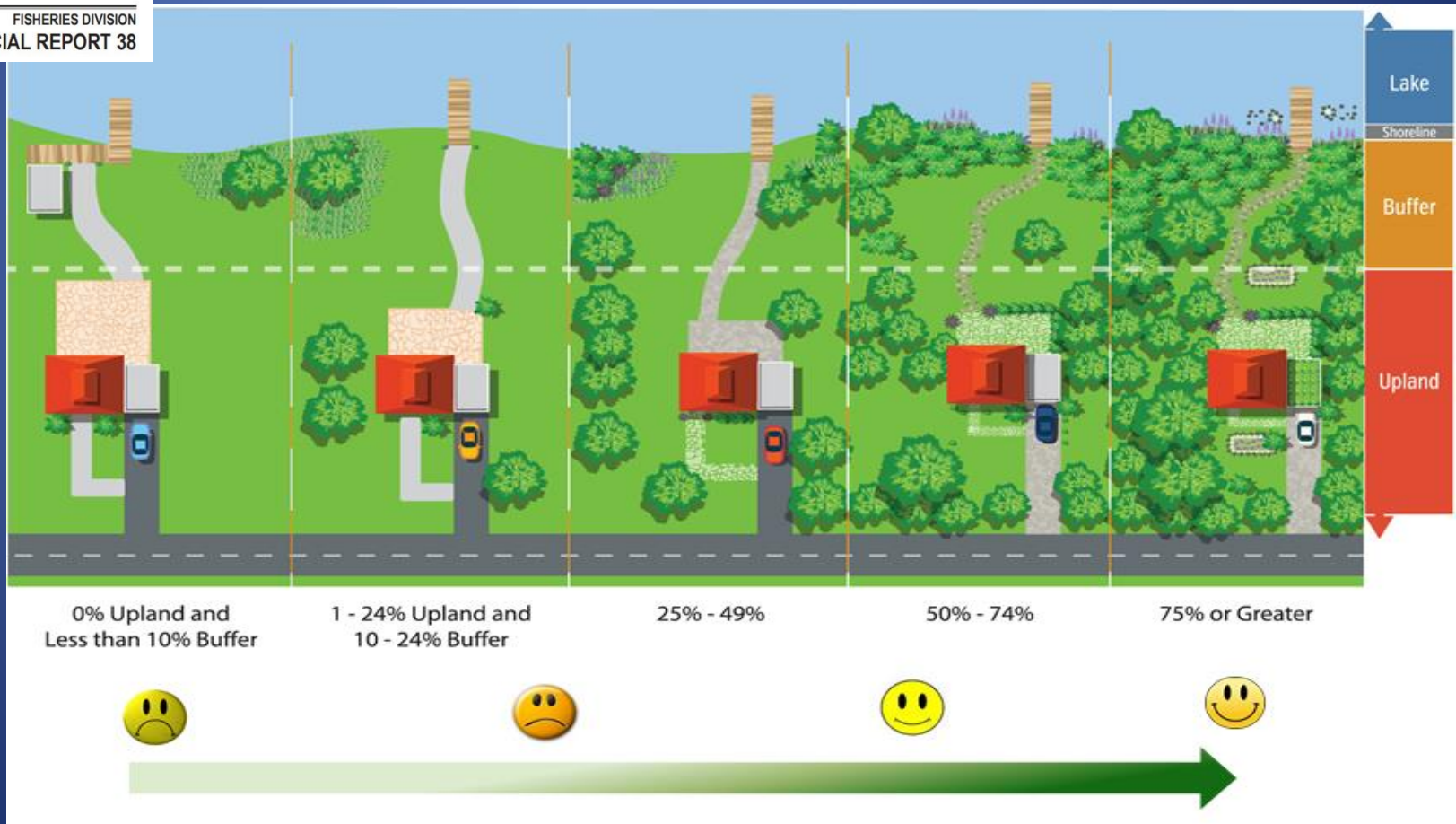
SR38 March 2006

Conservation Guidelines for Michigan Lakes and Associated Natural Resources

Richard P. O'Neal
and
Gregory J. Soulliere

FISHERIES DIVISION
SPECIAL REPORT 38

What is best for MI Inland Lakes?



SHORELAND STEWARDS

Take the Survey Anonymously

Just want to see what the survey looks like? Your survey will not be saved and a certificate will not be generated unless you register and save. You can register and save your survey at any time. We want you to register as it helps us know more about your lake.

Start Anonymously

Register for an Account

Registering allows you to return to your survey information at any time, receive a certificate, print your information and more! Please read our Privacy Statement for more information.

Start Registration

Log In

If you already have an account and would like to return to your survey,

Log In

Upland Zone Questions

You are taking the survey anonymously, and your answers are only saved for this session. Click the **Save and Finish Later** button to register and save your answers.

Please answer this question within 19 minutes.

Hey Anonymous, you have maybe 30 questions to go!

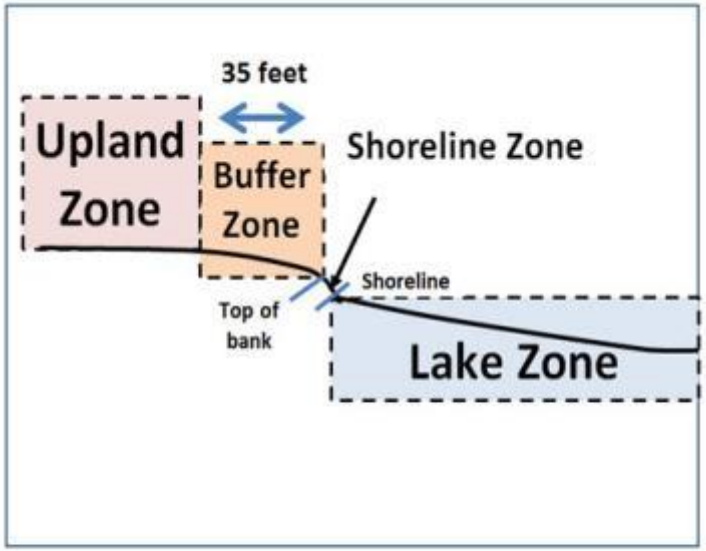
Your Progress

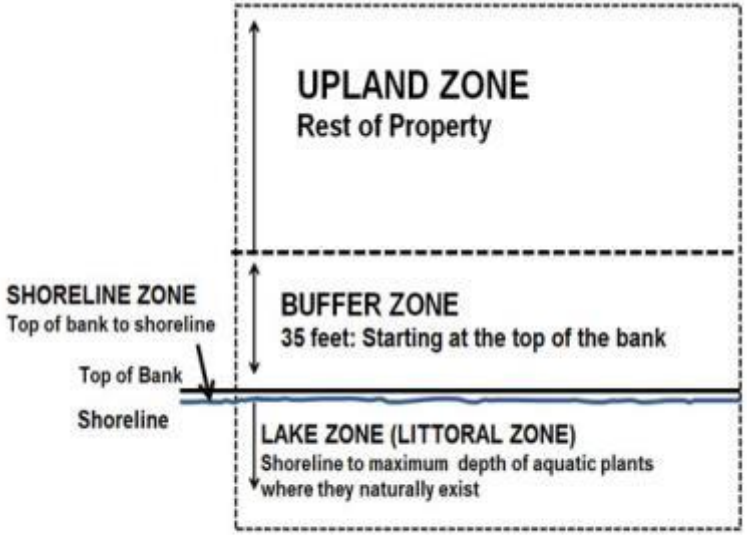
Estimate the percentage of your Upland Zone that contains buildings, patios, driveways, parking areas, or other impervious surfaces.

- ✔ 0-24% hard surfaces
- 25-49% hard surfaces
- 50-74% hard surfaces
- 75% or greater hard surfaces

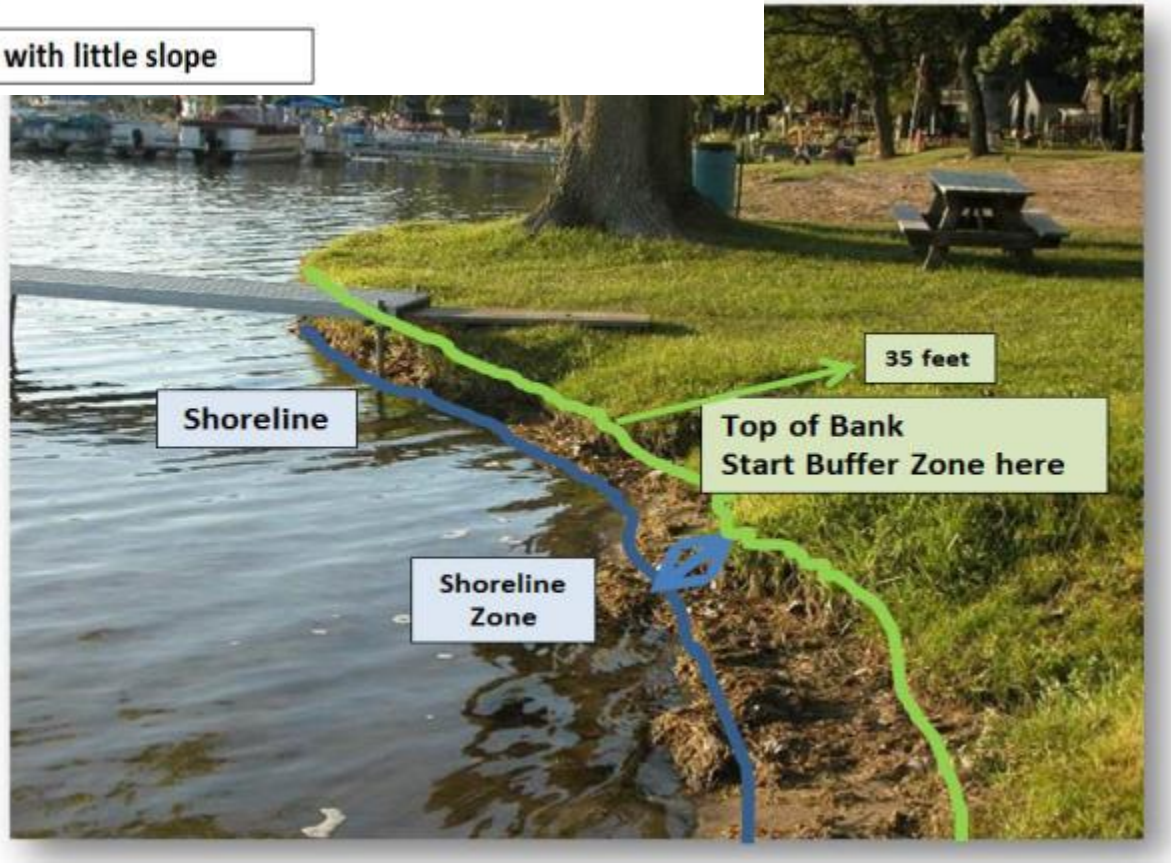
Next | Register and Save | Start Over

- What are hard (impervious) surfaces?
- Why are hard (impervious) surfaces a problem?
- MI DNR Conservation Guidelines for Inland Lakes
- Where are the different zones? Examples: Graphics and pictures
- Percentage Graphics





Shoreland Zones 1: Showing a small shoreline zone with little slope



An example of a Buffer Zone with a high percentage of impervious surfaces. While it is pretty it is unhealthy for the lake. There are other lake healthy alternatives for creating a nice sitting area.

This site is a good example of having a limited access area to the lake. Vegetation in the Buffer Zone is 75% or more. Potentially, there is high percentage vegetation in the Upland Zone as well. Not all plants are native. Certain non-natives may have already been planted and then property owner landscaped around them instead of taking them all out. *Photo: Jane Herbert*

No sand has been brought in for this site. However, this can be considered a maintained beach. The soil is sandy and without vegetation the beach area is created. The shoreline is eroding and erosion extends into the Upland Zone is because of the lack of vegetation. This area should be minimized.
Photo: Scott Brown

This shoreline is naturally rocky. There are no active erosion problems in this entire stretch. This is an excellent example of maintaining a highly vegetated buffer zone and minimal access. *Photo: MAPS*

Silver

Julia, Your Survey Resulted in a Silver Level

Congratulations! You have achieved the Silver Level recognition. Thank you for participating and helping to protect Michigan's inland lakes.

Please register if you have not already done so. Your answers will be saved and you will receive a certificate. As a registered participant you will be able to print your certificate and your survey information. You will also have the opportunity to show us your property by uploading pictures.

Remember to purchase your sign too! There are three size options available. A sign can be purchased through the MI Lake and Stream Associations' website.

Review Your Answers

Review answers

Areas for Improvement

- High percentage of impervious surface
- Upland Zone Vegetation 50-74%
- Buffer Vegetation 49% - 25%
- No variety of native plants in the buffer
- No erosion control structures and no erosion

Areas for Improvement

Things to Do

Print Your Certificate

Print This Report

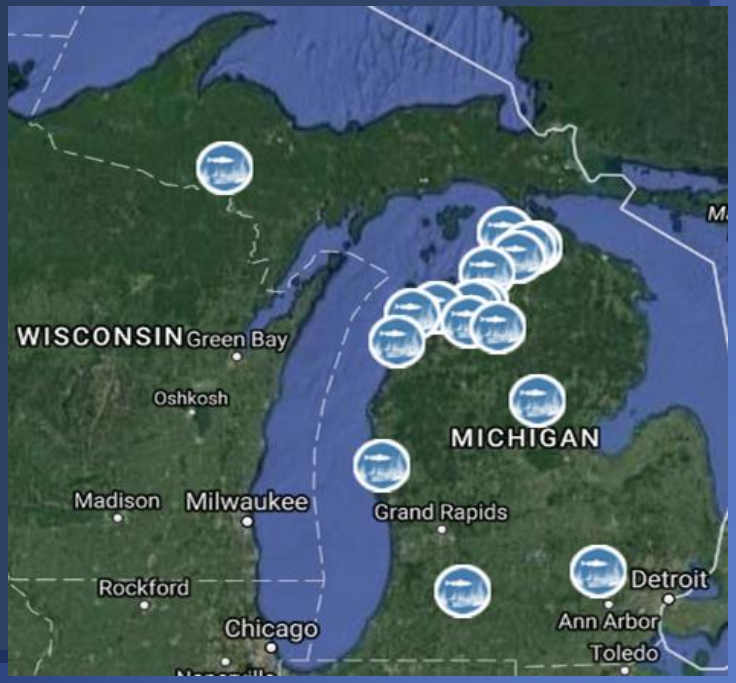
Edit Your Profile

Clear Answers and Start a New Survey

Print Certificate and Report

Certificate and Signs

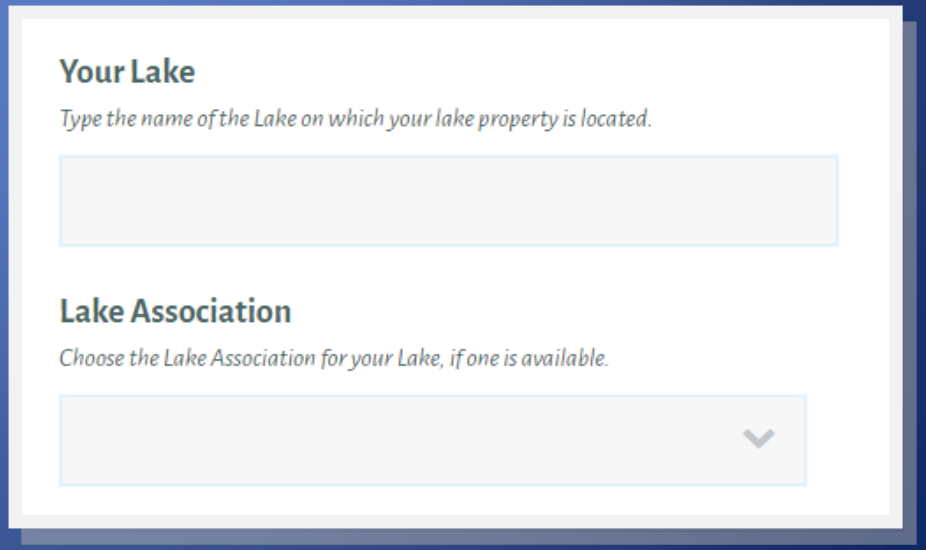
Lake Association Registration



Location Feature

Access to Resource Materials

Registration Feature



Score the Shore

- Assesses health of the shoreline
- Identify priority areas

MI Shoreland Stewards Program			Progress 2/27/17 (10 months)	
Goal	Year 1	Year 5	Number	% of yer 1 Goal
Lake Associations Registered	20	100	20	100%
Different Lakes Represented*	50	250	104*	208%
Total Respondents Including Anonymous	400	2,500	407	102%
Total Respondents Achieving SS Status	350	2,000	289	83%
			Gold	*97*
			Silver	*103*
			Bronze	*89*
Registered Participants	200	2,000	156	78%
Registered Achieving Shoreland Steward Status	150	2,000	116	77%
Feet of Shoreline that are Shoreland Stewards**	10,000 feet	50,000 feet	38485**	385%

Also, 4 Rivers 2 Great Lakes, Lake St Clair

* Started collecting lake name for anonymous 7/21/16 so some may not be represented

** Started collecting lake frontage for anonymous 7/21/16 so this number is actually highe