

A Botanist's Perspective on Selecting the Right Plants

Dr. Mary Blickenderfer

UNIVERSITY OF MINNESOTA
EXTENSION

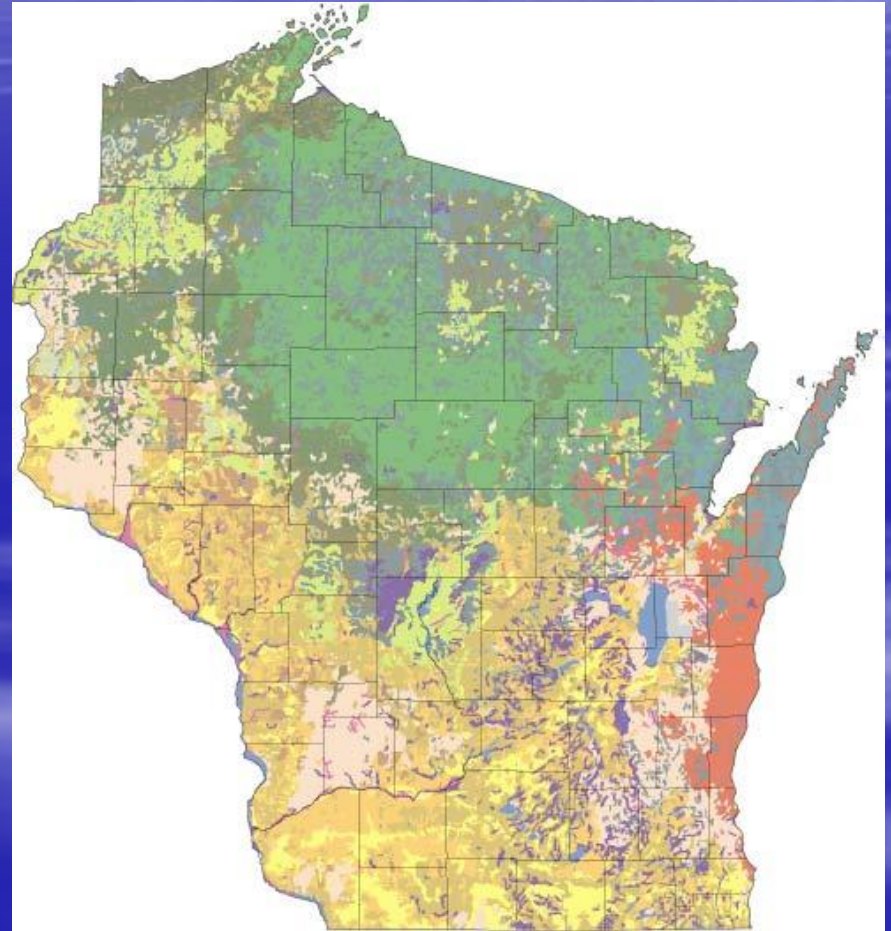
Shoreland Revegetation

- Select the right plant
- For the right place
- For the right reason



Select the right plant...

- For your ecological zone (ask about genetic origin)
- For the plant community (consider plant groupings that include multiple “layers” that naturally work well together)



- For the successional stage (you may need to plant in phases)
- For particular plant attribute(s)

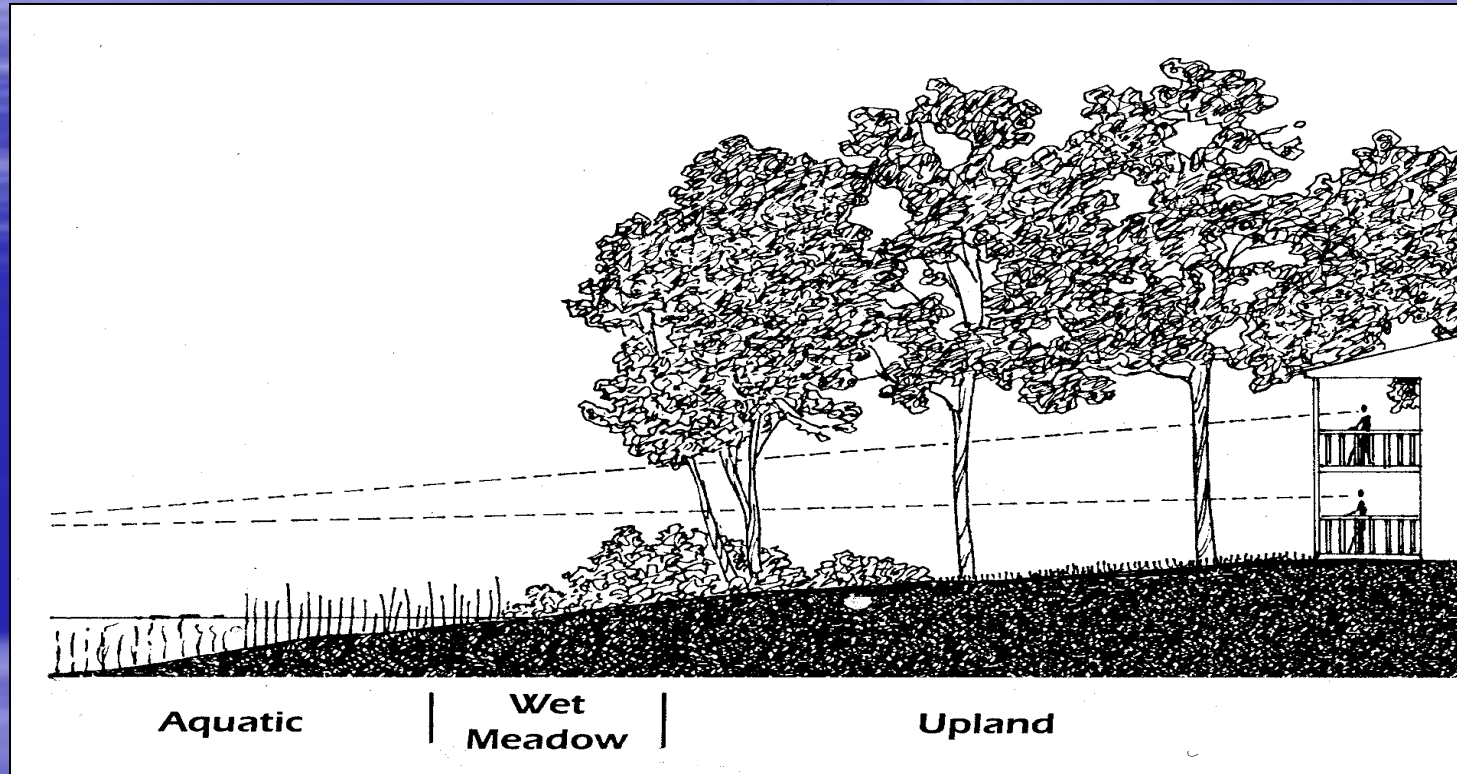


Photo: Bill Bartodziej – Natural Shores, Inc.



Photo: Jean Pitt

For the right place...



Always
under
water

Seasonally
flooded;
“Wet feet”

Never/rarely flooded;
“Dry feet”

- Soil texture (sand, silt, clay, organic)
- Sun/wind exposure
- Site challenges

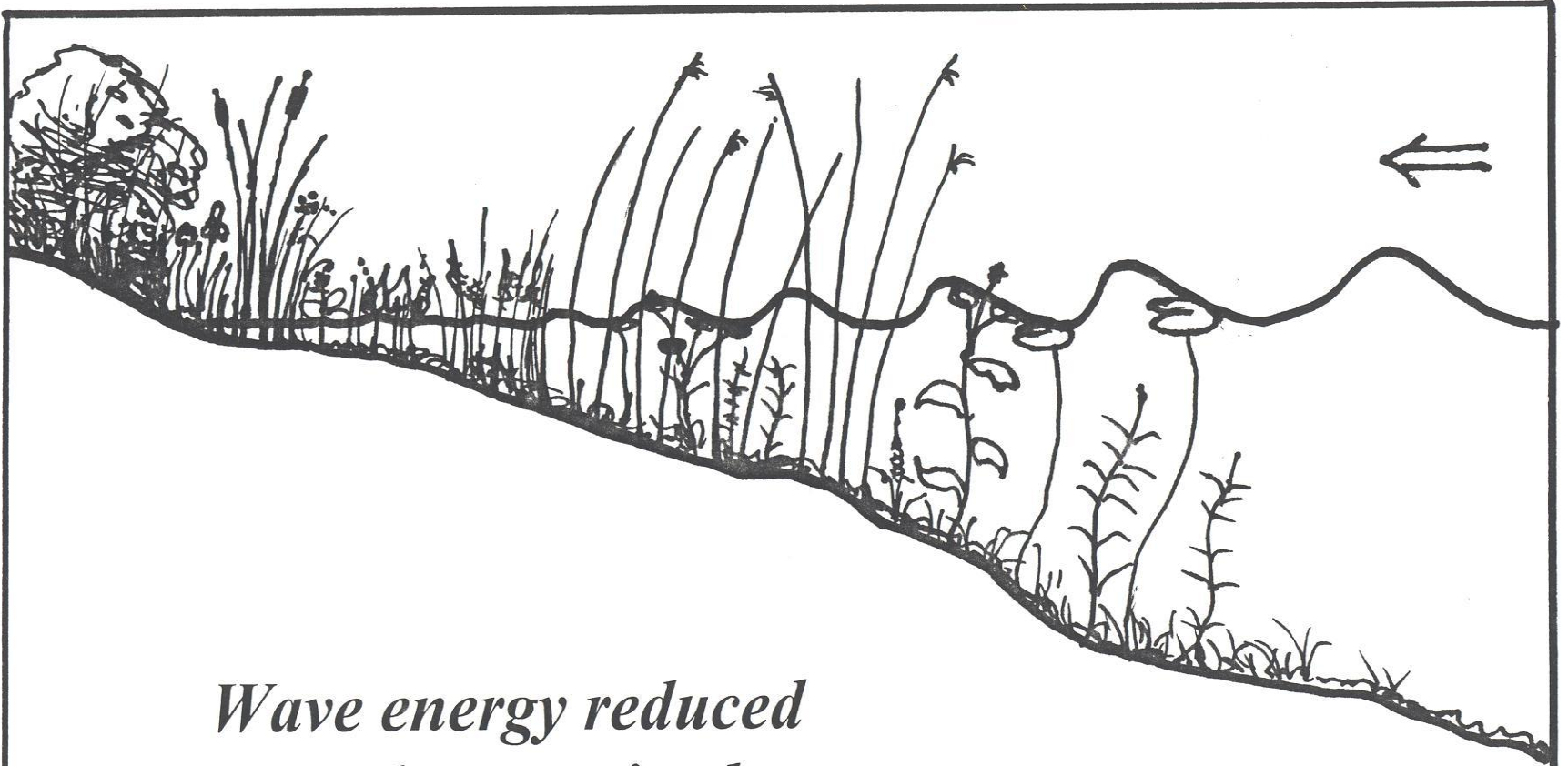


For the right reason(s)...

Note: sometimes the right plants are already in the right place for the right reason...just quit mowing!

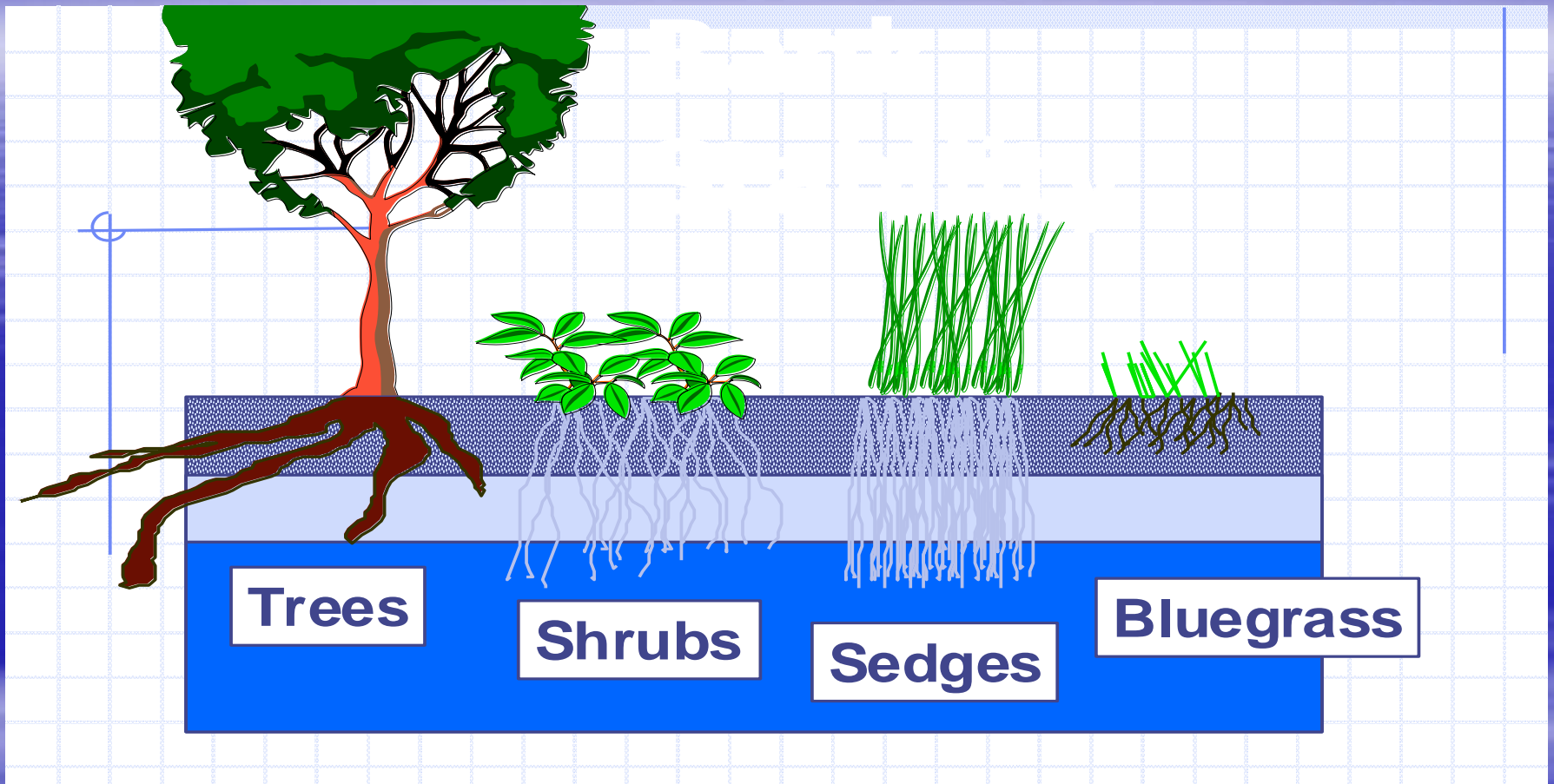
1. Erosion control





*Wave energy reduced
by aquatic plants*



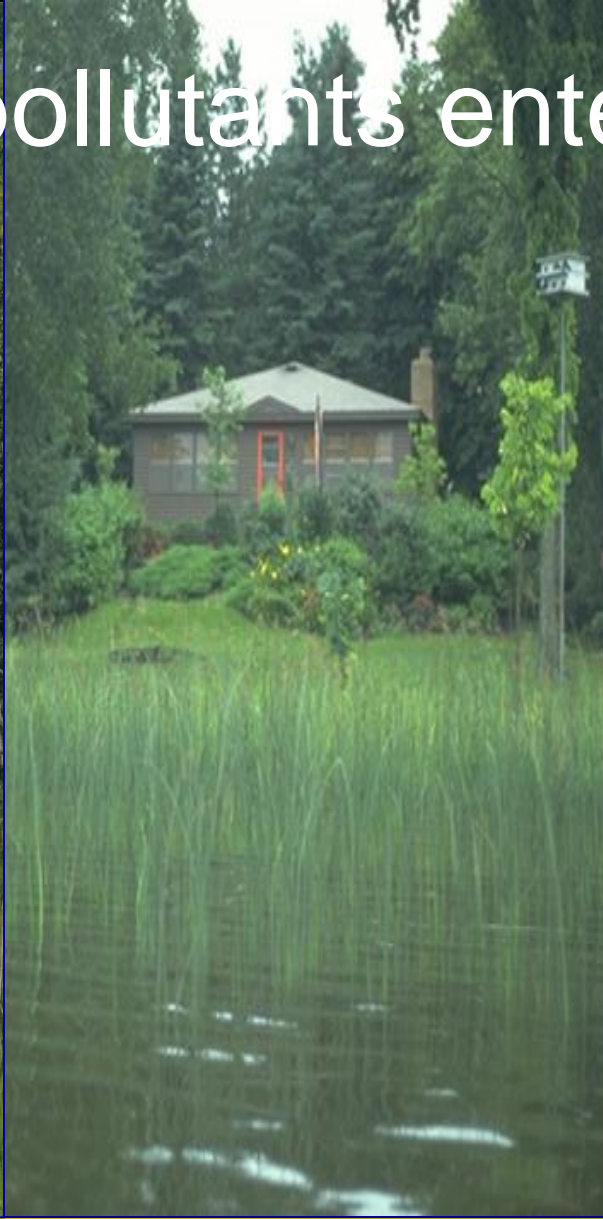


Deep, dense rooted native plants resist wave and ice erosion



C = aquatic plants removed, wetland and upland plants replaced with lawn
N = native plants not disturbed

2. Reduce pollutants entering the lake

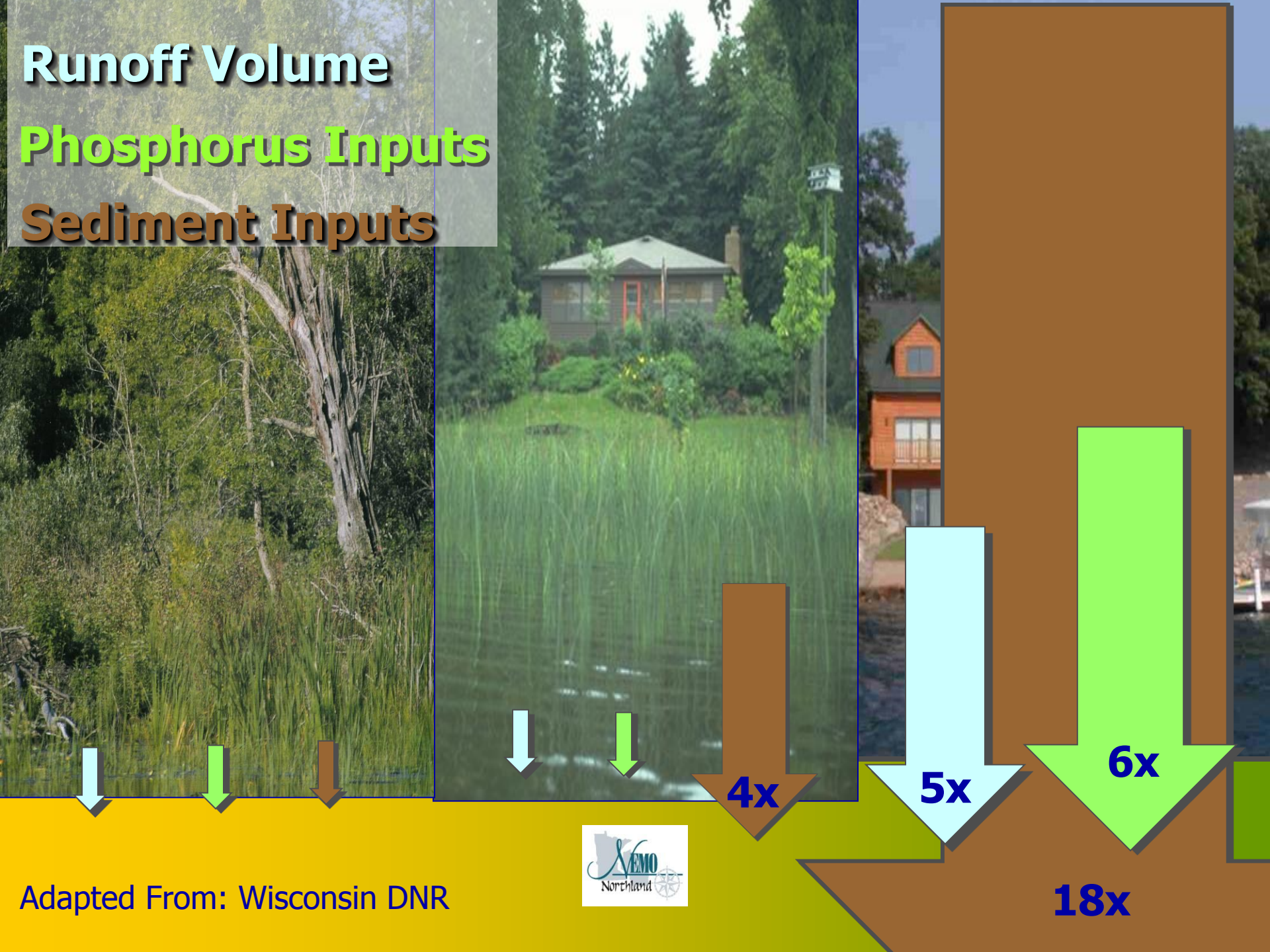


Adapted From: Wisconsin DNR

Runoff Volume

Phosphorus Inputs

Sediment Inputs



Adapted From: Wisconsin DNR

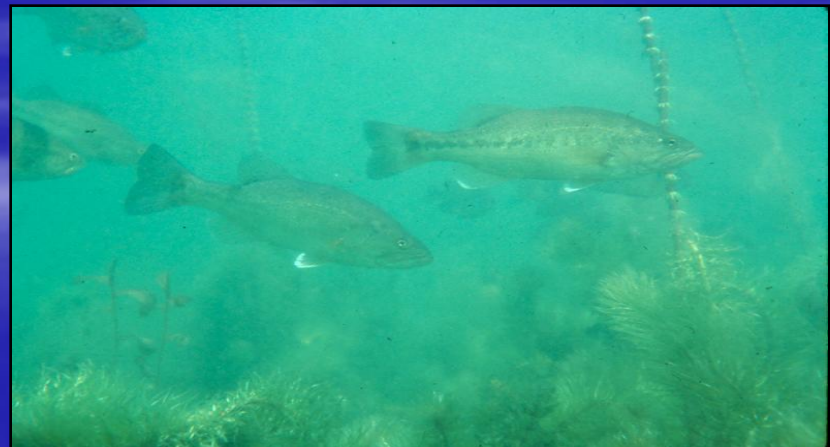


*“...a native grass strip **just 10 feet wide** captures **60%** of the sediment.*

*A **20-foot strip** retains **80%** of the sediment.” (Seker 1999)*

*“For **water quality** protection
... most recommendations for minimum
buffer widths range from **50 feet to 100**
feet.” (Wenger 1999)*

3. Wildlife habitat...



*“Protection of diverse terrestrial riparian
wildlife communities requires some
buffers of **at least 300 feet.**”*

(Wenger 1999)

4. Control shoreline access



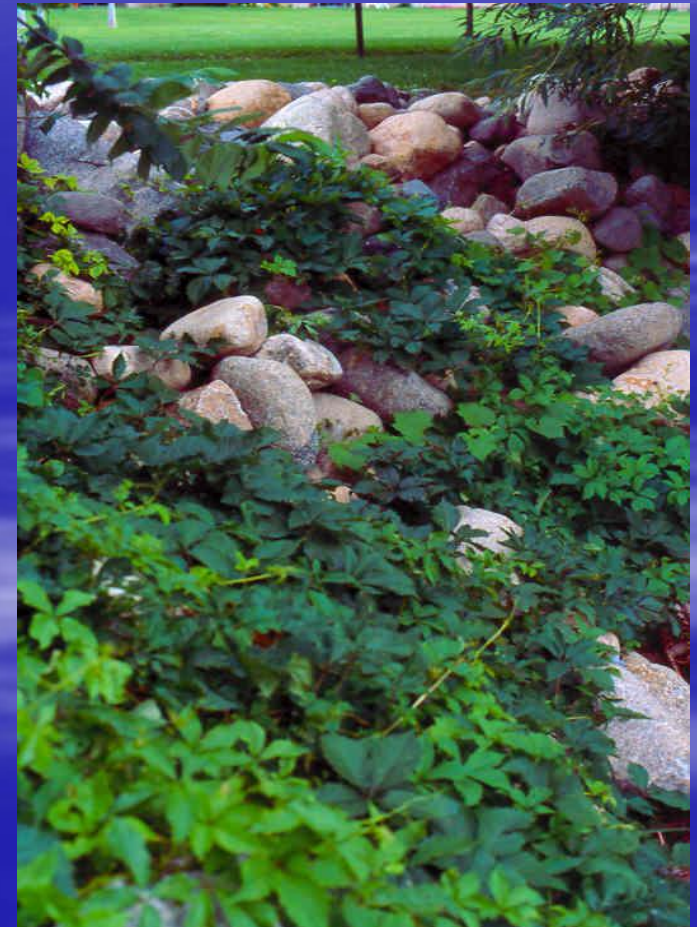
...especially for geese!



5. Privacy screen



6. “Soften” rock rip rap



7. Beauty



Photo: Bill Bartodziej

8. Enjoyment!

