





Project Location in Wisconsin

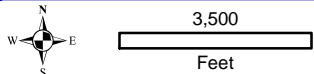
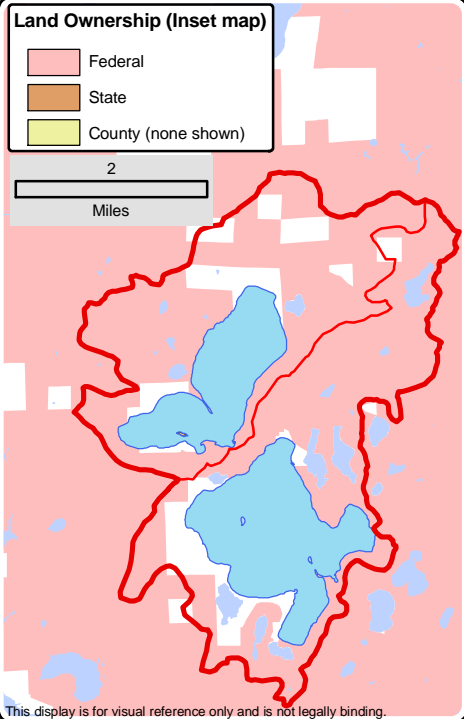
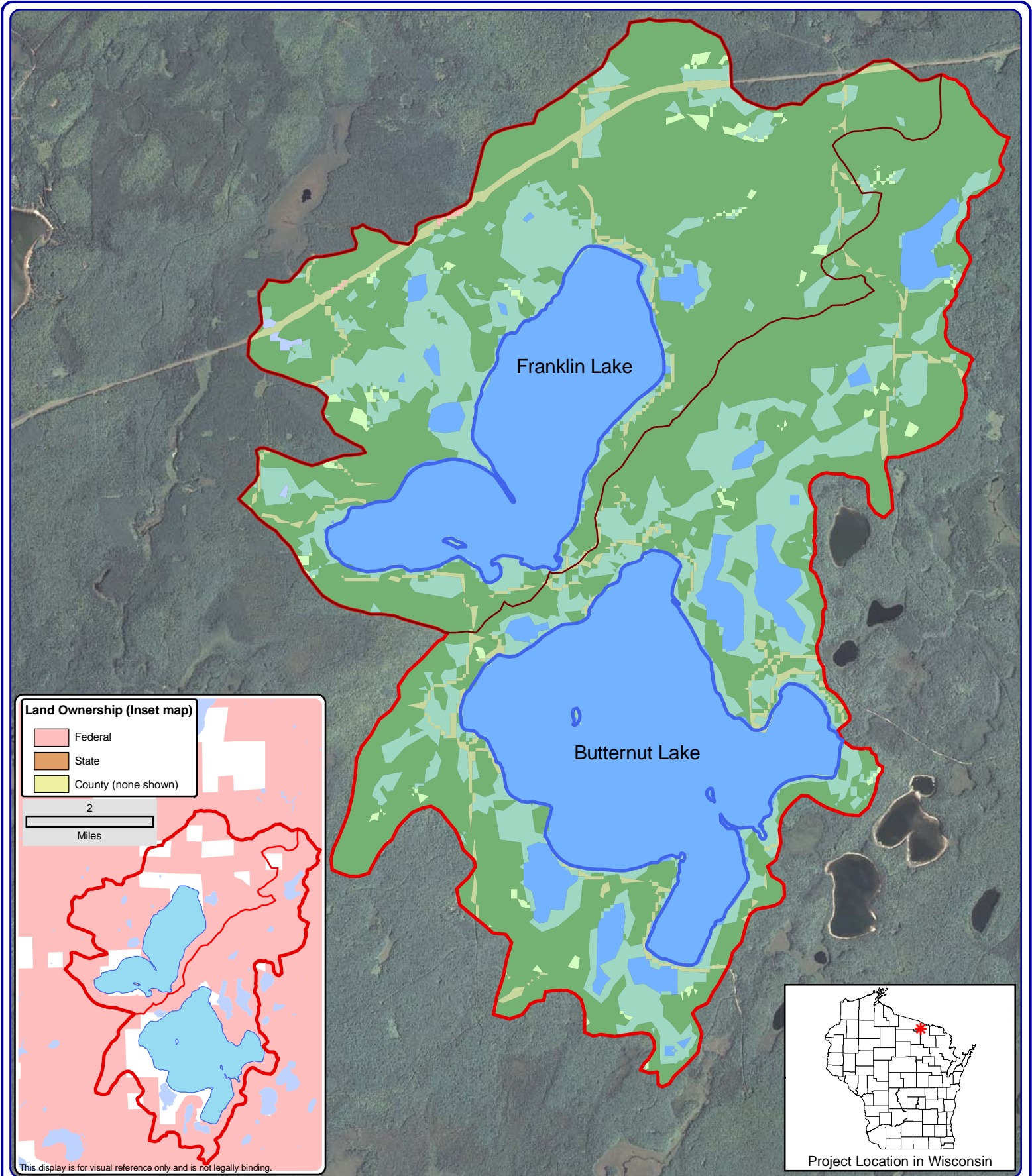
Onterra LLC
 Lake Management Planning
 815 Prosper Road
 De Pere, WI 54115
 920.338.8860
 www.onterra-eco.com

Sources:
 Roads & Hydro: WDNR
 Orthophotography: NAIP 2008
Map date: June 10, 2013
 Filename: Map1_BF_Location.mxd

Legend

-  Butternut and Franklin Lakes
-  Point-intercept Sample Location
-  Water Quality Sampling Location
-  Public Access Location

Map 1
Butternut & Franklin Lakes
 Forest County, Wisconsin
Project Location
& Lake Boundaries

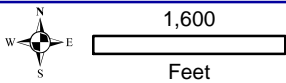
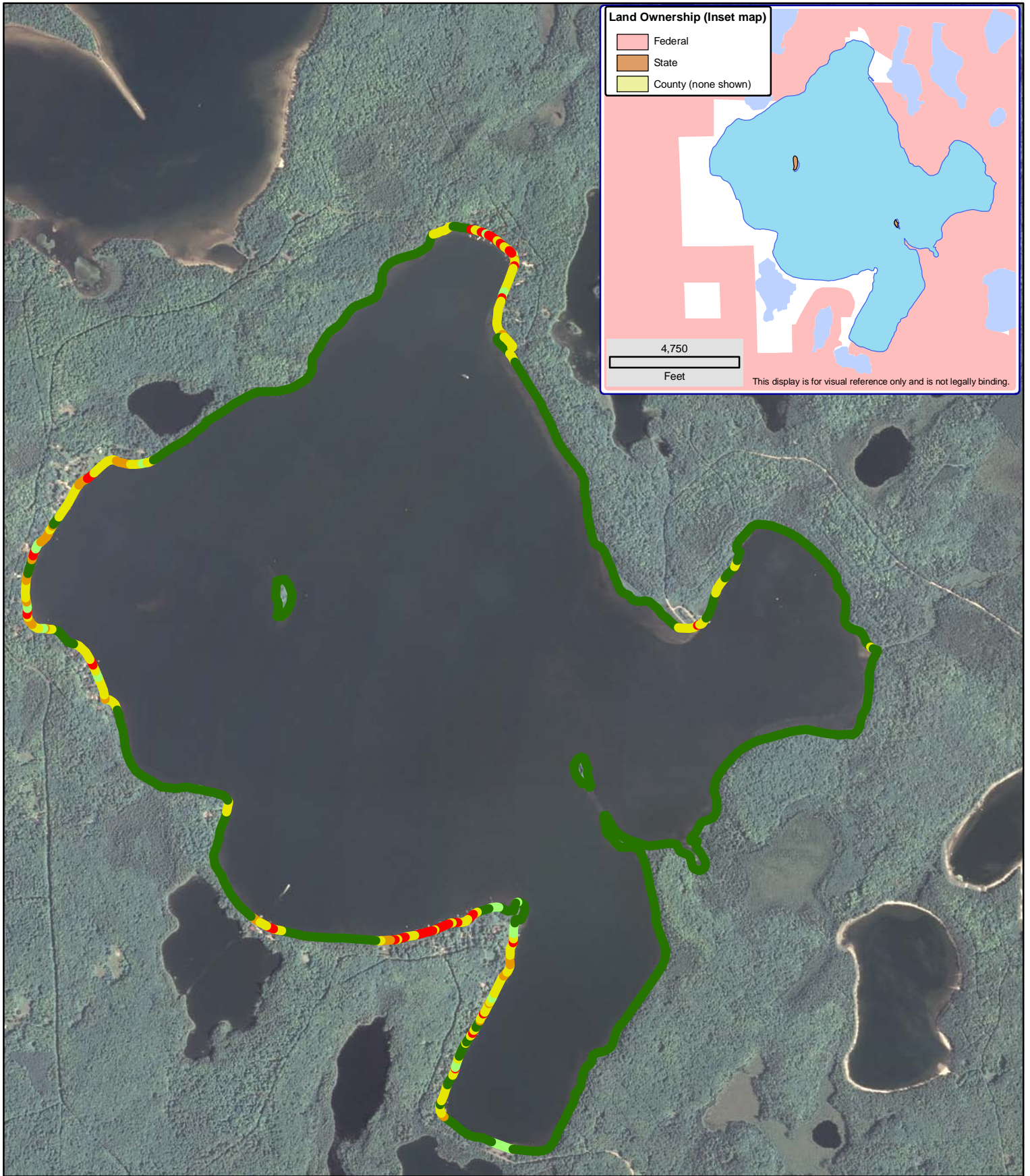


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Source:
 Watershed: WDNR & Onterra
 Landcover: NLCD 2006
 Hydro: WDNR
 Orthophotography: NAIP, 2010
 Map Date: March 4, 2013
 File Name: Map2_ButternutFranklin_WS.mxd

- Legend**
- Forest
 - Pasture/Grass
 - Open Water
 - Wetland
 - Forested Wetlands
 - Rural Residential
 - Rural Open Space
 - Watershed Boundary

Map 2
Butternut and Franklin Lakes
 Forest County, Wisconsin
Watershed and
Land Cover Types



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Sources:
 Orthophotography: NAIP, 2010
 Shoreline Assessment: Onterra, 2012
 Federal Land: USDA Forest Service
 State Land: WDNR
 Map date: June 10, 2013
 Filename: Map3_Butternut_ShorelineCondition_2012.mxd






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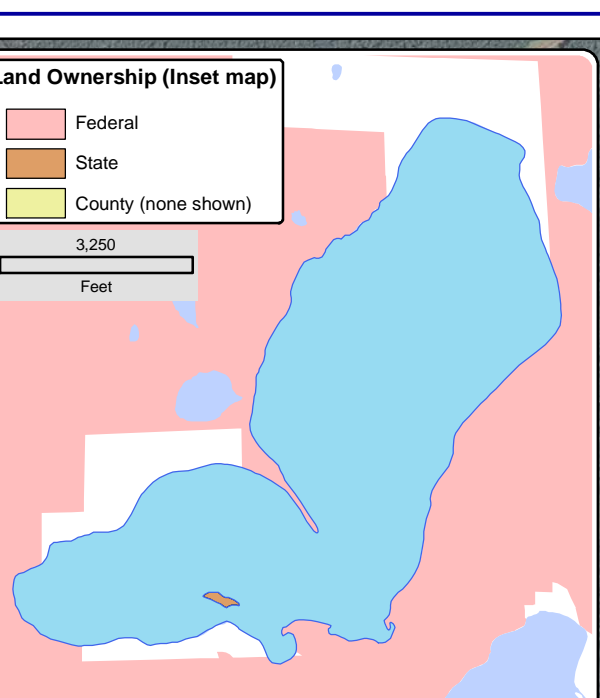
- Legend**
- Natural/Undeveloped
 - Developed-Natural
 - Developed-Semi-Natural
 - Developed-Unnatural
 - Urbanized

Map 3
Butternut Lake
 Forest County, Wisconsin
Shoreland
Condition

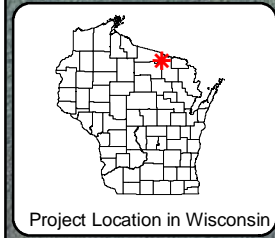
Land Ownership (Inset map)

-  Federal
-  State
-  County (none shown)

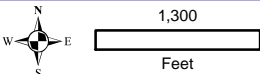
3,250
Feet



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Project Location in Wisconsin






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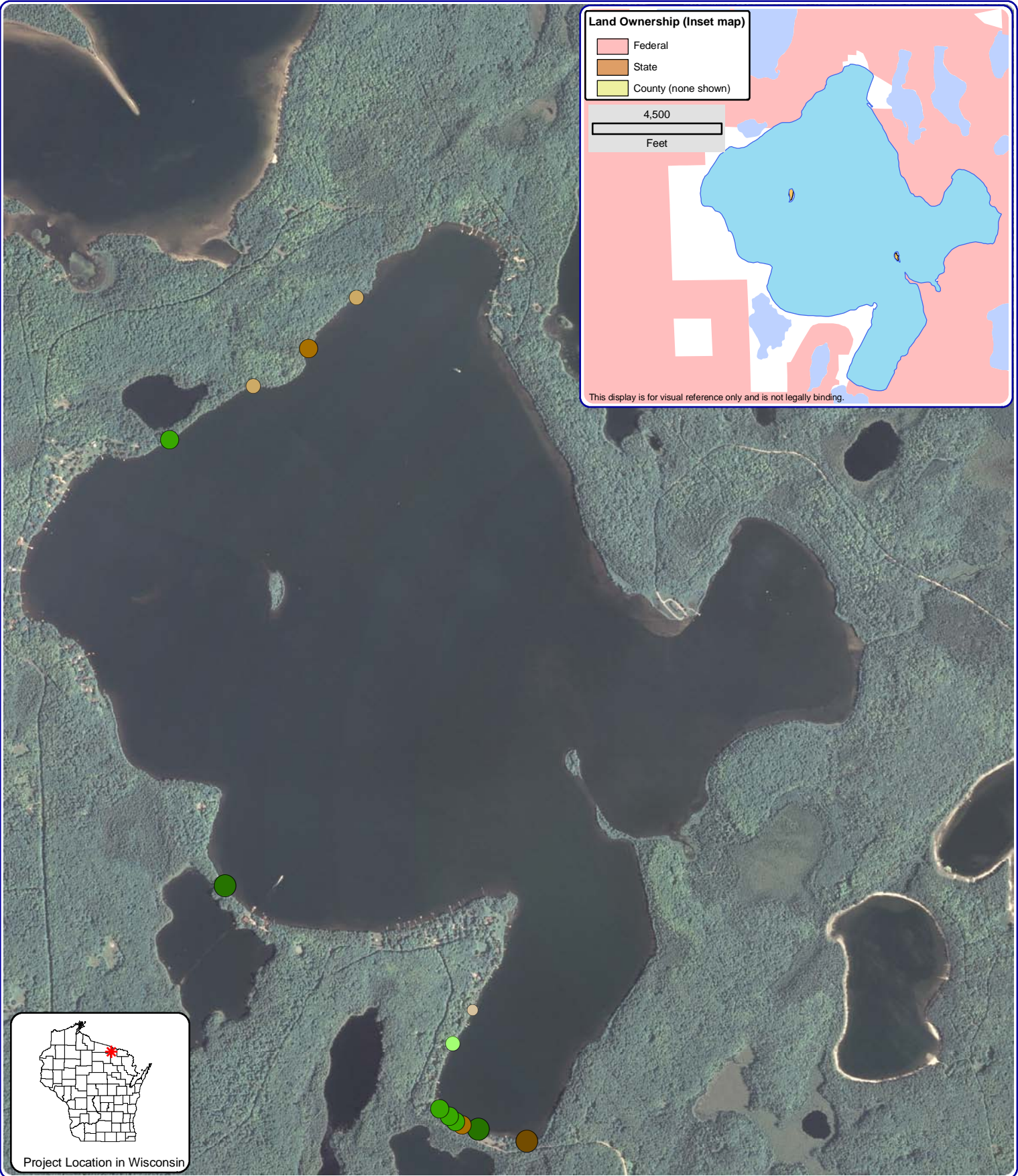
Sources:
Orthophotography: NAIP, 2010
Shoreline Assessment: Onterra, 2012
Federal Land: USDA Forest Service
State Land: WDNR
Map date: June 10, 2013
Filename: Map4_Franklin_ShorelineCondition_2012.mxd

Legend

-  Natural/Undeveloped
-  Developed-Natural
-  Developed-Semi-Natural
-  Developed-Unnatural
-  Urbanized

-  Seawall
-  Masonry/Wood
-  Rip-Rap

Map 4
Franklin Lake
Forest County, Wisconsin
**Shoreland
Condition**

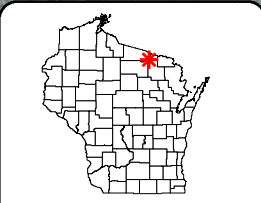


Land Ownership (Inset map)

- Federal
- State
- County (none shown)

4,500
Feet

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Project Location in Wisconsin

1,600
Feet

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Sources:
Orthophotography: NAIP, 2010
CWH Survey: Onterra, 2012
Federal Land: USDA Forest Service
State Land: WDNR
Map date: June 10, 2013
Filename: Map5_Butternut_CWH_2012.mxd

Legend

- 2-8 Inches, No Branches
- 2-8 Inches, Minimal Branches
- 2-8 Inches, Moderate Branches
- 2-8 Inches, Full Canopy
- >8 Inches, No Branches
- >8 Inches, Minimal Branches
- >8 Inches, Moderate Branches
- >8 Inches, Full Canopy
- Cluster

Map 5
Butternut Lake
Forest County, Wisconsin
Coarse Woody
Habitat

Land Ownership (Inset map)

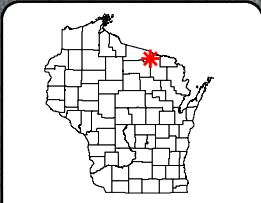
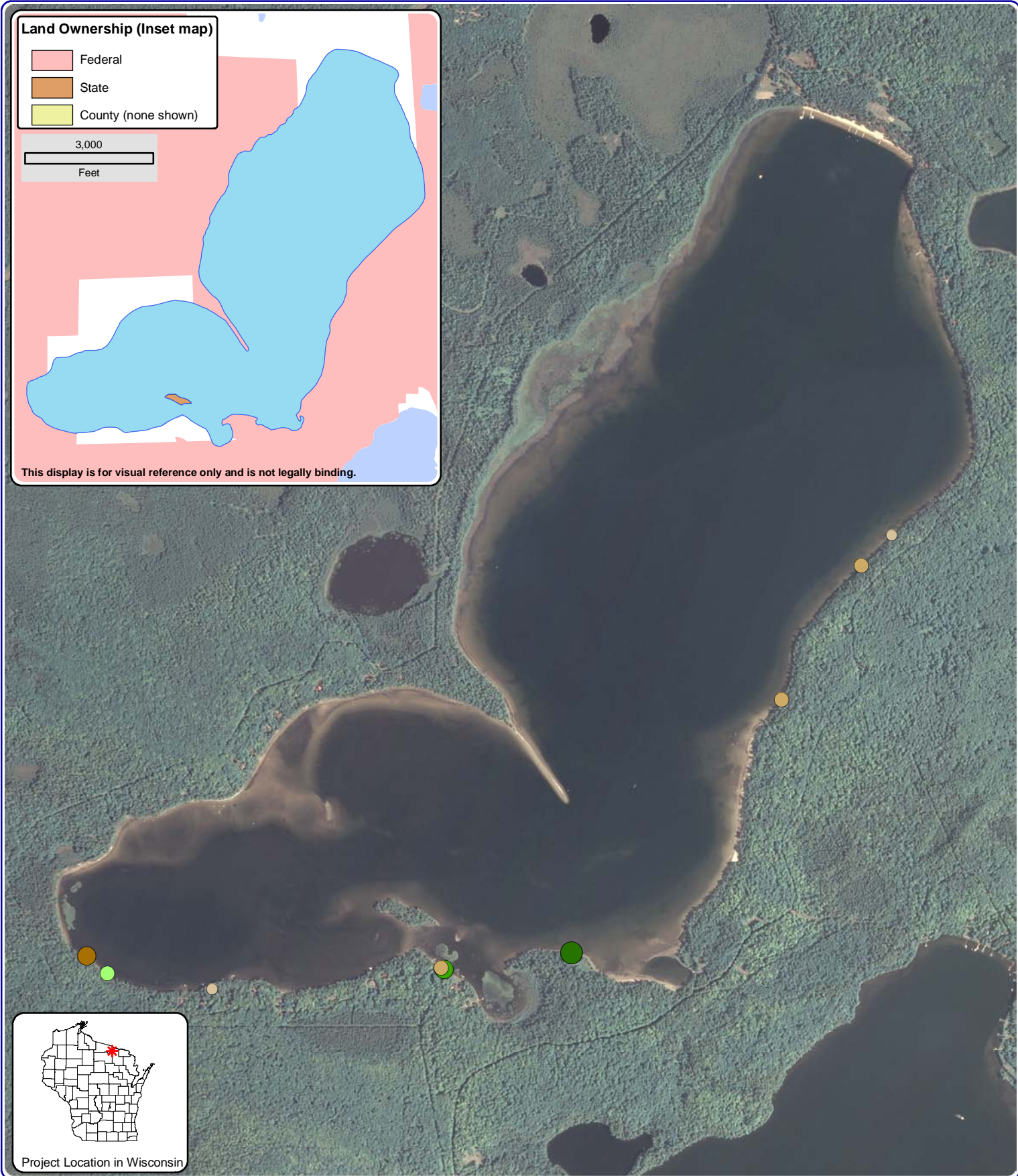
- Federal
- State
- County (none shown)

3,000

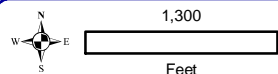


Feet

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Project Location in Wisconsin



1,300

Feet

Legend

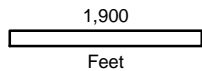
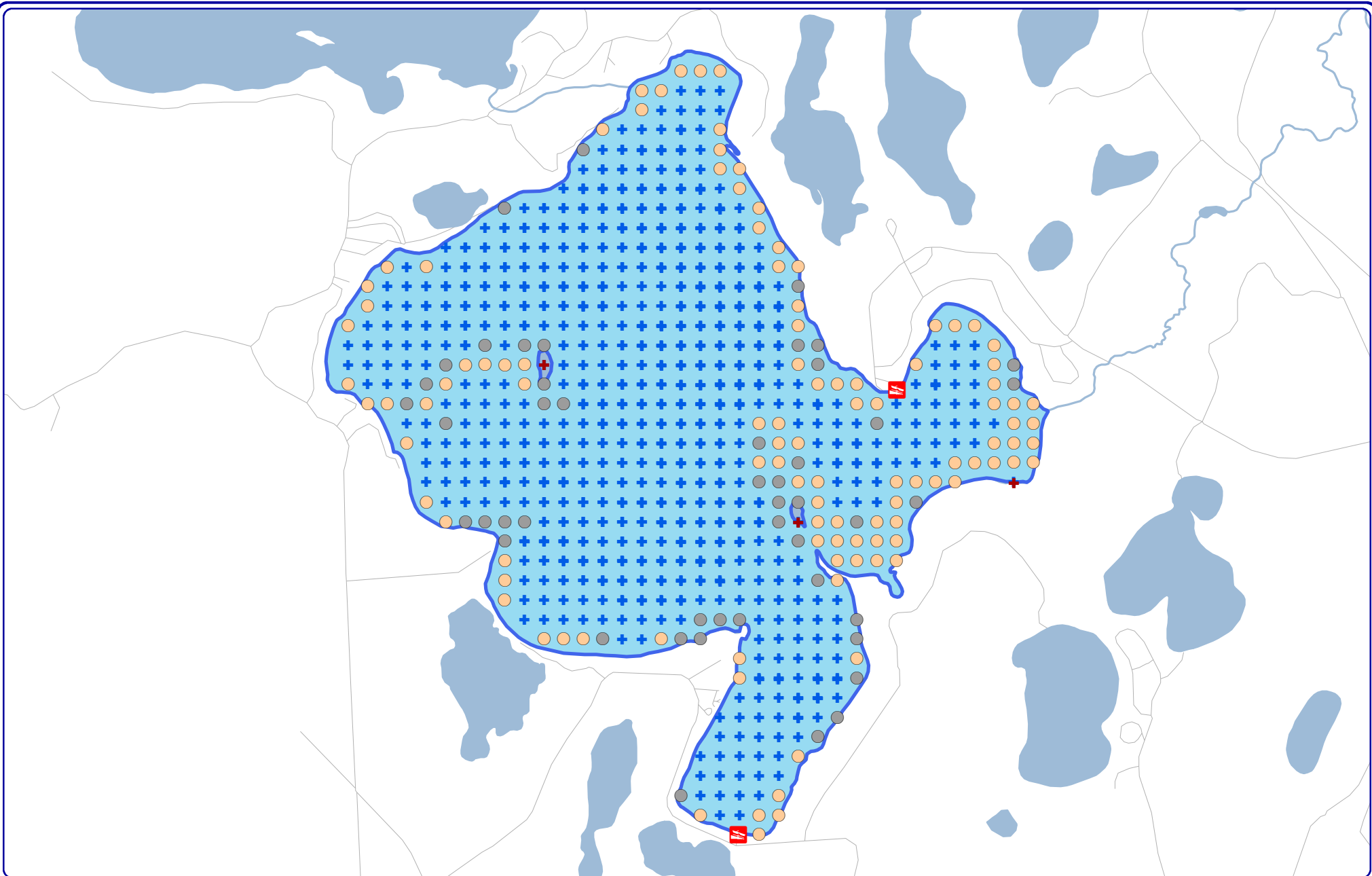
- 2-8 Inches, No Branches
- 2-8 Inches, Minimal Branches
- 2-8 Inches, Moderate Branches
- 2-8 Inches, Full Canopy (none)
- >8 Inches, No Branches
- >8 Inches, Minimal Branches
- >8 Inches, Moderate Branches
- >8 Inches, Full Canopy
- *

Cluster

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Sources:
 Orthophotography: NAIP, 2010
 CWH Survey: Onterra, 2012
 Federal Land: USDA Forest Service
 State Land: WDNR
 Map date: June 10, 2013
 Filename: Map6_Franklin_CWH_2012.mxd

Map 6
Franklin Lake
 Forest County, Wisconsin
Coarse Woody
Habitat



Project Location in Wisconsin

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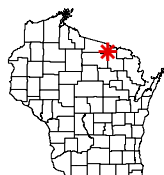
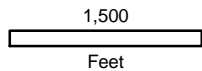
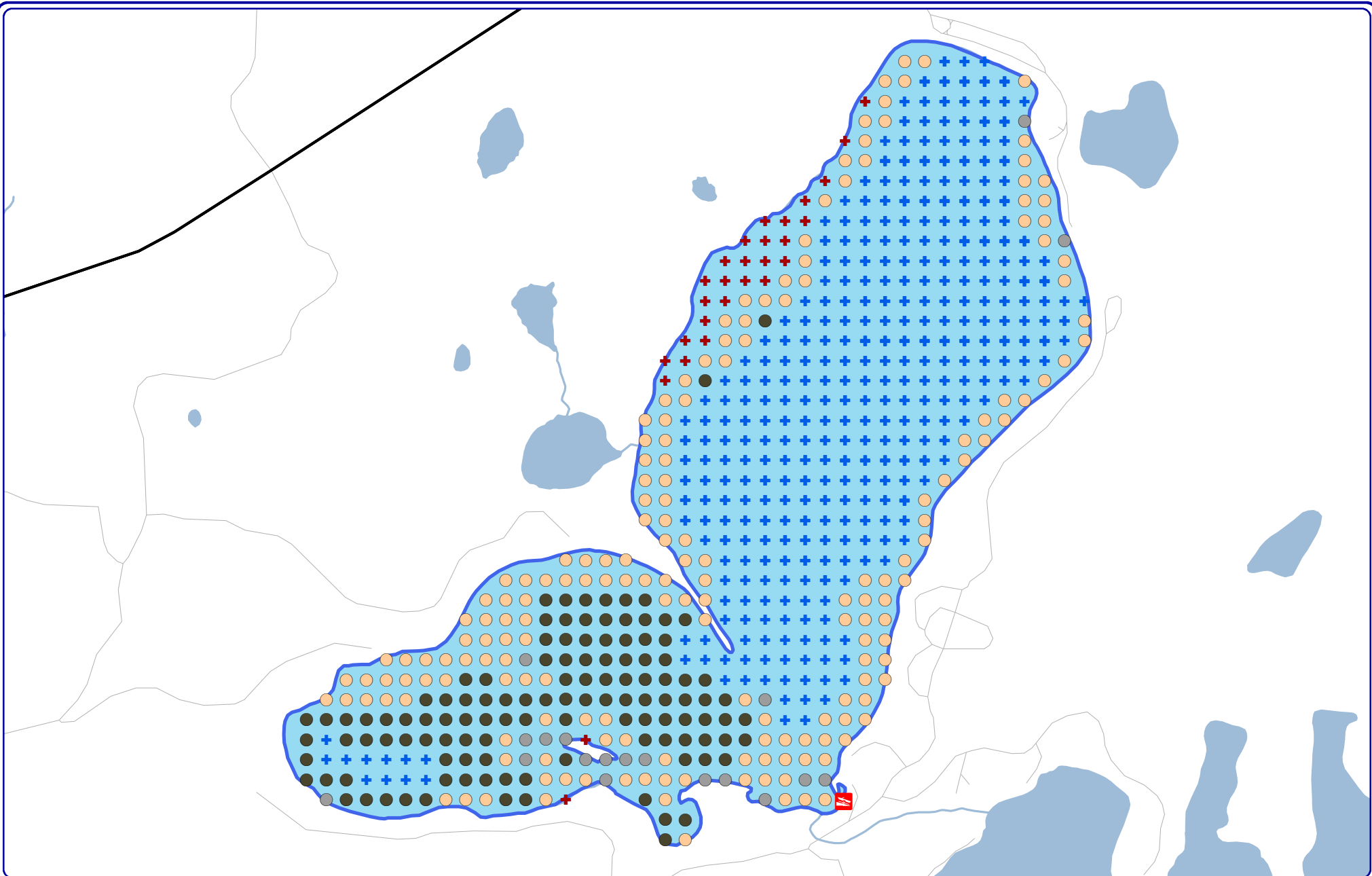
Sources:
 Roads and Hydro: WDNR
 PI Survey: Onterra, 2012
 Map Date: June 10, 2013
 Filename: Map7_Butternut_SubstratePI.mxd

Legend

- Muck
- Rock
- Sand
- + Too Deep, No Data
- + Non-navigable, No Data

Map 7

Butternut Lake
 Forest County, Wisconsin
2012 Point-intercept Survey:
Substrate Types



Project Location in Wisconsin

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Sources:
 Roads and Hydro: WDNR
 PI Survey: Onterra, 2012
 Map Date: June 10, 2013
 Filename: Map8_Franklin_SubstratePI.mxd

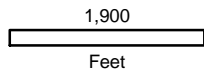
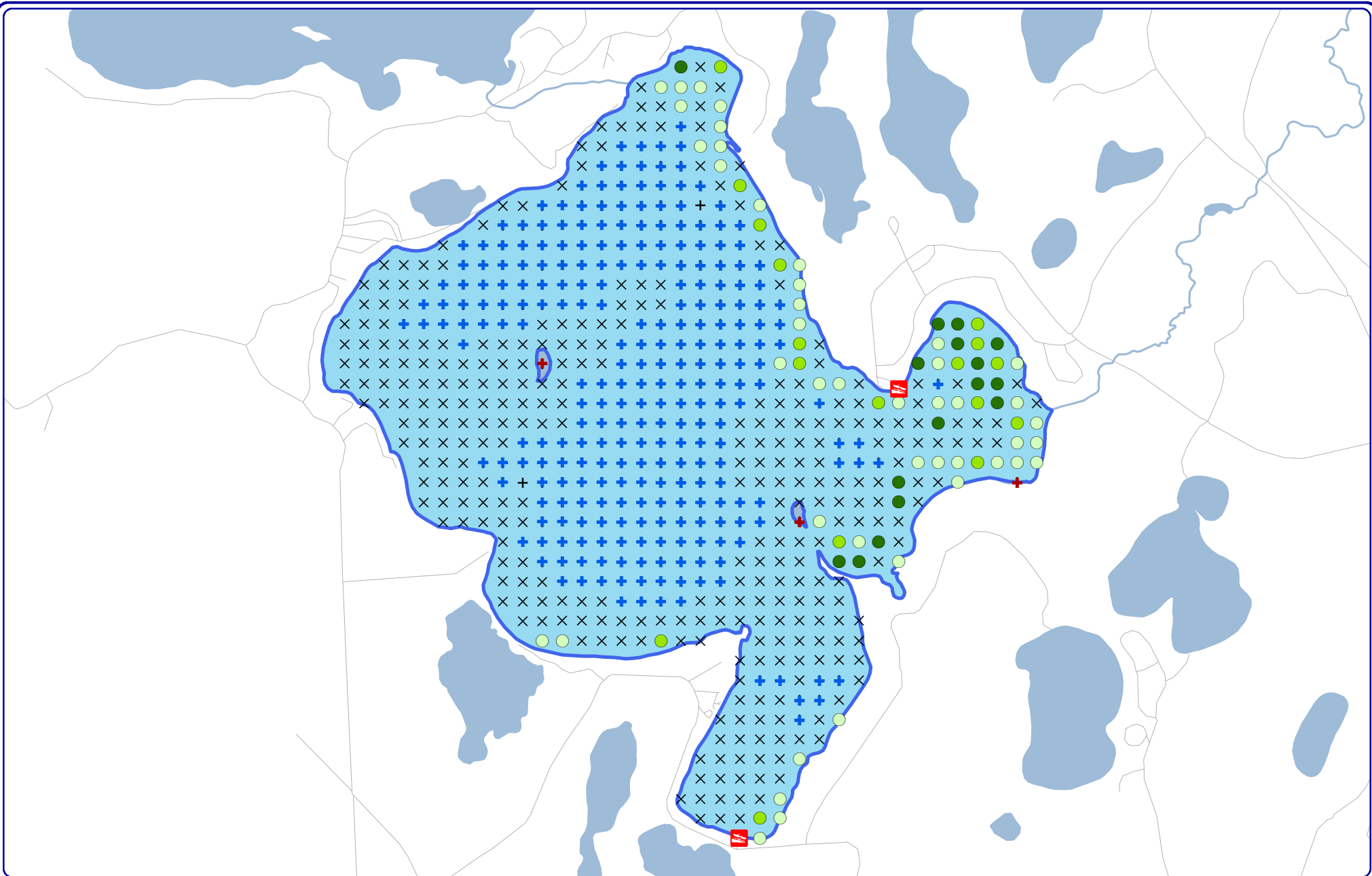
Legend

- Muck
- Rock
- Sand
- + Too Deep, No Data
- + Non-navigable, No Data

Map 8

Franklin Lake
 Forest County, Wisconsin

**2012 Point-intercept Survey:
 Substrate Types**



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Sources:
 Roads and Hydro: WDNR
 PI Survey: Onterra, 2012
 Map Date: June 10, 2013
 Filename: Map9_Butternut_TRFPI.mxd

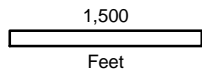
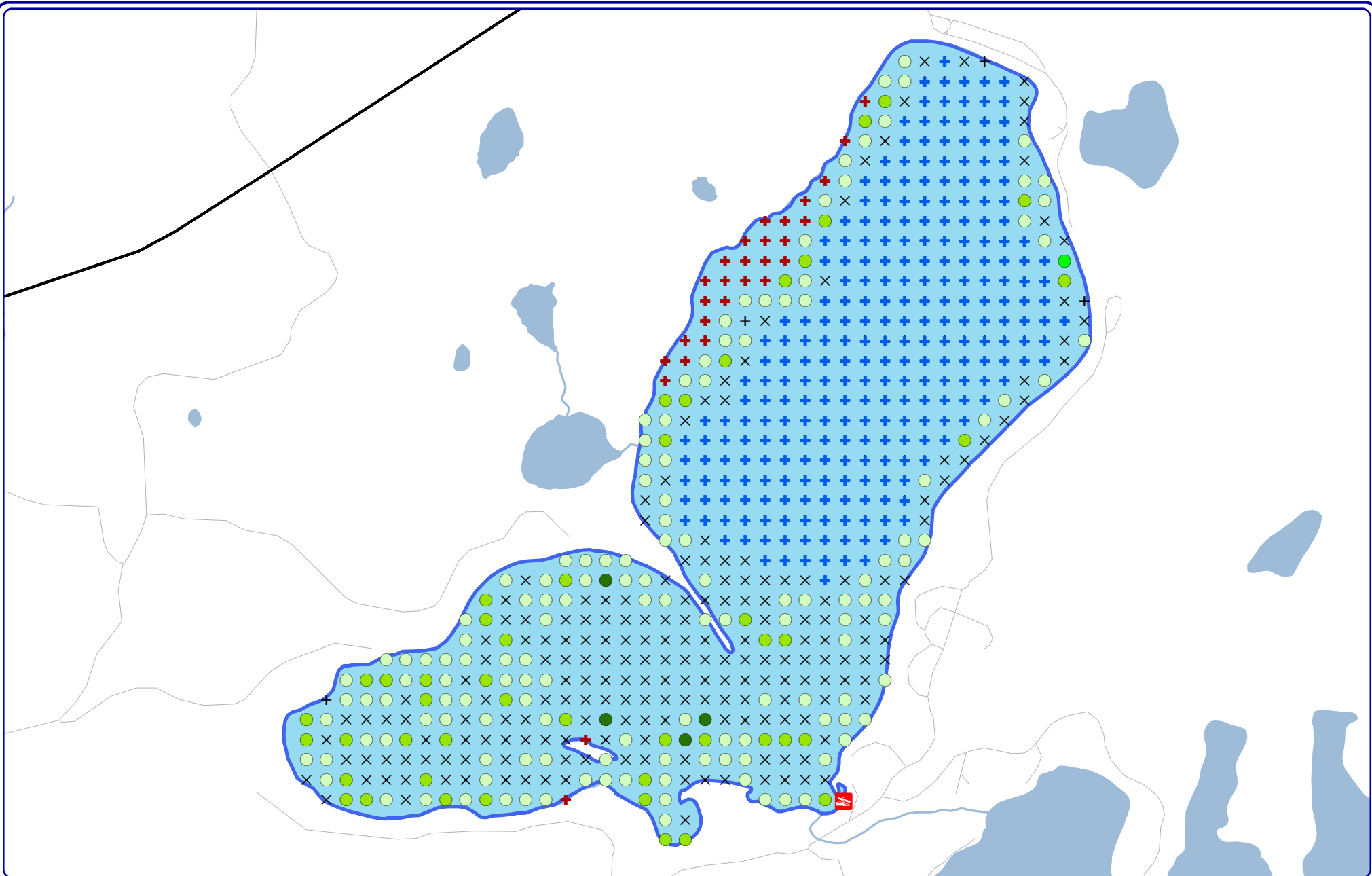
Legend

- Total Rake-fullness = 1
- Total Rake-fullness = 2
- Total Rake-fullness = 3
- × No Vegetation
- + Too Deep
- + Non-navigable, No Data

Map 9

Butternut Lake
 Forest County, Wisconsin

**2012 Point-intercept Survey:
 Aquatic Vegetation Distribution**



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Sources:
 Roads and Hydro: WDNR
 PI Survey: Onterra, 2012
 Map Date: June 10, 2013
 Filename: Map10_Franklin_TRFPI.mxd

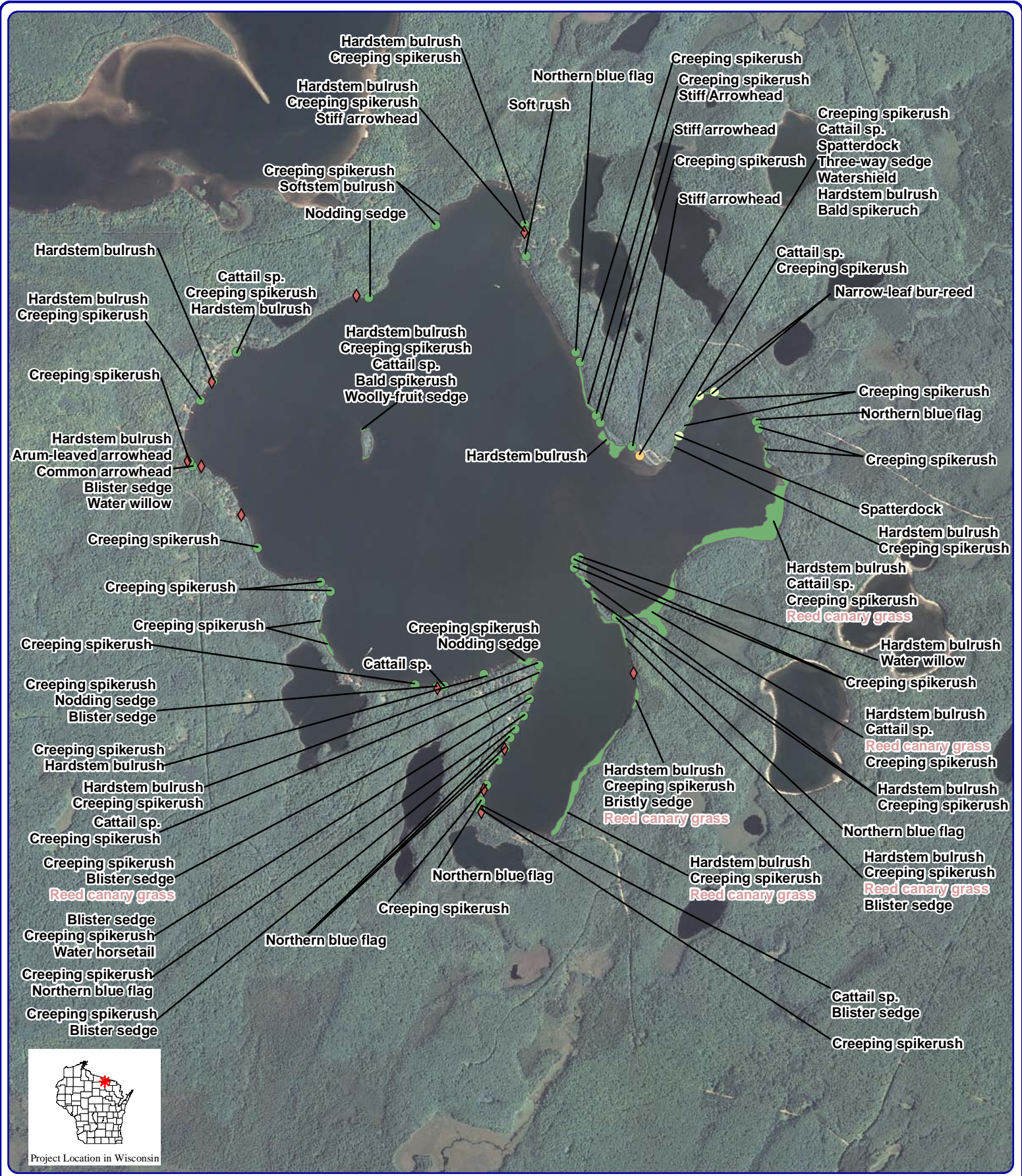


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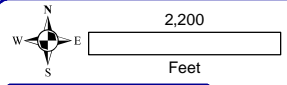
Legend

- Total Rake-fullness = 1 × No Vegetation
- Total Rake-fullness = 2 + Too Deep
- Total Rake-fullness = 3 + Non-navigable, No Data

Map 10
 Franklin Lake
 Forest County, Wisconsin
**2012 Point-intercept Survey:
 Aquatic Vegetation Distribution**



Project Location in Wisconsin



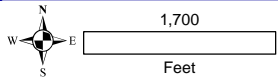
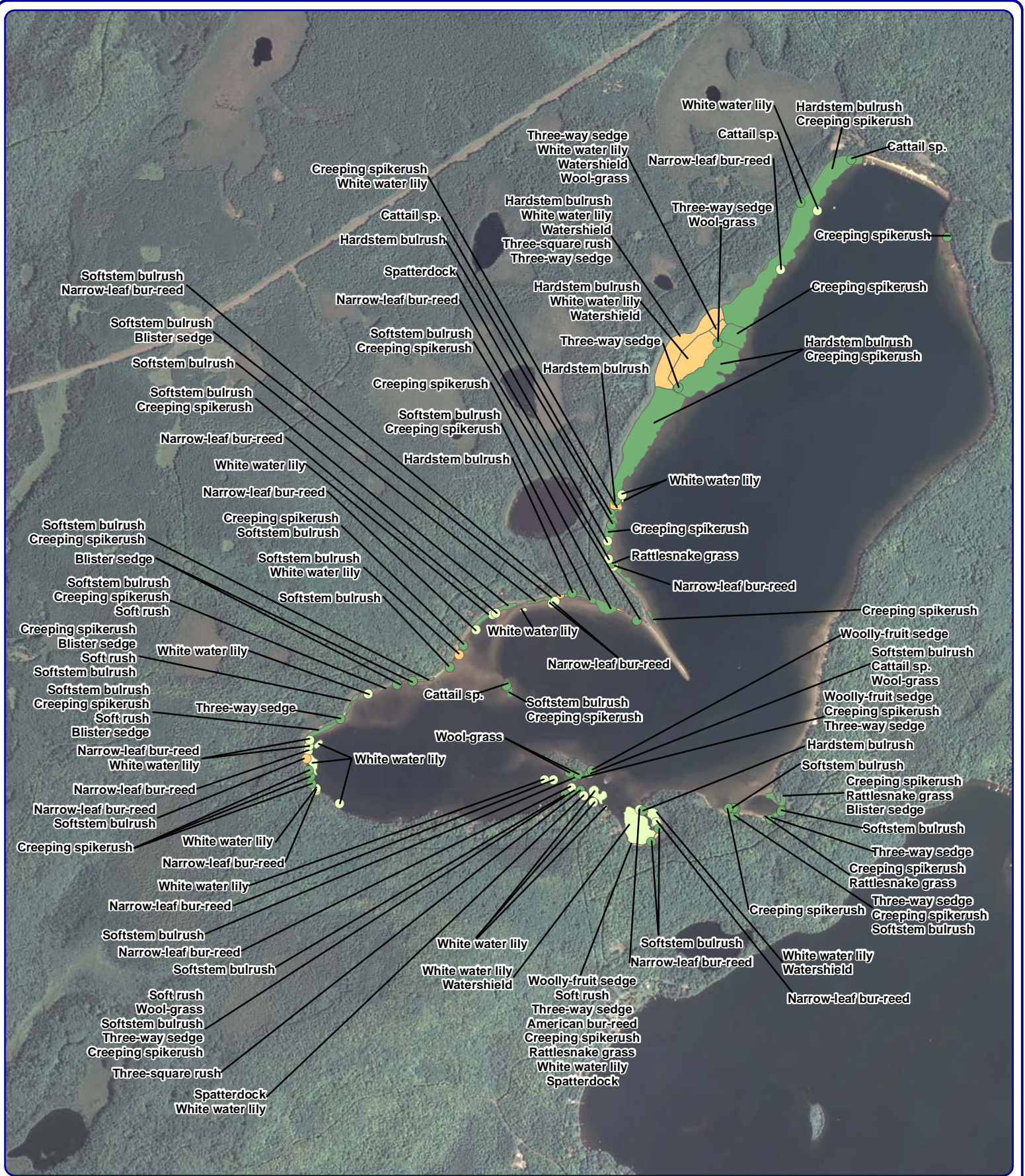
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Sources:
 Hydro: WDNR
 Aquatic Plants: Onterra, 2012
 Orthophotography: NAIP, 2010
 Map date: June 10, 2013
 Filename: Map11_Butternut_Comm_2012.mxd

Legend

Small Plant Communities	Large Plant Communities	Exotic Plant Communities
● Emergent	■ Emergent	◆ Reed Canary Grass
● Floating-leaf	■ Floating-leaf	
● Mixed Floating-leaf & Emergent	■ Mixed Floating-leaf & Emergent	

Map 11
 Butternut Lake
 Forest County, Wisconsin
**Aquatic Plant
 Communities**



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Sources:
 Hydro: WDNR
 Aquatic Plants: Onterra, 2012
 Orthophotography: NAIP, 2010
 Map date: June 10, 2013
 Filename: Map12_Franklin_Comm_2012.mxd



Project Location in Wisconsin

Legend

- Small Plant Communities**
- Emergent
 - Floating-leaf
 - Mixed Floating-leaf & Emergent

- Large Plant Communities**
- Emergent
 - Floating-leaf
 - Mixed Floating-leaf & Emergent

Map 12
 Franklin Lake
 Forest County, Wisconsin
**Aquatic Plant
 Communities**