

REVISED DRAFT

INLAND LAKES CLASSIFICATION SYSTEM

DOUGLAS COUNTY, WISCONSIN MARCH 11, 1996

PREPARED FOR

ORDINANCE REVIEW COMMITTEE
DOUGLAS COUNTY BOARD OF SUPERVISORS

PREPARED BY

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INLAND LAKES CLASSIFICATION SYSTEM REPORT

DOUGLAS COUNTY, WISCONSIN

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SECTION 1 INTRODUCTION

The Douglas County Board of Supervisors has engaged Discovery Group, Ltd. to prepare the Lake Classification System in order to respond to an increasing concern by residents and property owners about the quality of the lakes and the pressures for lakefront development on the inland lakes.

The intent of the study is to provide the Douglas County Board of Supervisors with specific recommendations to further the objectives, purposes, and intent of the Douglas County's Shoreland Zoning Ordinance, which is currently being revised.

SECTION 2 LAKE DEVELOPMENT POLICY

The following policy statements are adopted as the guidelines for implementing the Douglas County Inland Lakes Classification System and accompanying recommended ordinance changes:

- 1. It is the intent of the Douglas County Board of Supervisors to preserve the natural and scenic qualities of the lakes and shorelines in Douglas County.
- 2. The Douglas County Board of Supervisors recognizes that different lakes within the county have varying natural conditions that affect their environmental sensitivity or vulnerability to shoreland development. In recognition of this fact, the "Douglas County Lakes Classification System" needs to take into account the relative vulnerability of each waterbody based on lake surface area, lake depth, soil group, lake type, length of shoreline, size of watershed, and availability of wastewater treatment facilities.
- 3. The Douglas County Board of Supervisors desires to balance the needs for environmental protection and responsible stewardship with reasonable use of private property and economic development.
- 4. Lakes that are most vulnerable to environmental degradation should receive the highest level of protection.
- 5. Lakes that are environmentally-sensitive and in pristine or near-pristine condition should receive the highest level of protection.
- 6. Future development and land divisions on lakes that are developed or partially developed should be carefully managed to prevent overcrowding that would diminish the value of the resource, minimize nutrient loading, protect water quality, preserve spawning grounds and fish and wildlife habitats, and preserve shore cover and natural beauty.
- 7. Cluster developments that result in the protection of undeveloped shoreline are encouraged.
- 8. The shorelines of all lakes should be left in as near a natural condition as feasible.
- 9. Navigable waterbodies in Douglas County should have public access so that the waters are available for public use, commensurate with the suitability of the water resource for recreational use and the reasonable interests of the riparian property owners,

SECTION 3 LAKE CLASSIFICATION SYSTEM

The Douglas County Lakes Classification System is based on a combination of natural factors that determine lake vulnerability or environmental sensitivity.

Note: The classification system incorporates only information that is <u>uniformly available</u> for all lakes. Because biological and chemical information is not uniformly available for all of the lakes in Douglas County, these criteria have not been used in the classification system. If biological or chemical information is available for any individual lakes, this data may be considered by the Douglas County Zoning Committee and used as a basis for reclassification, if the scientific evidence suggests that the lake requires a different level of protection than that provide by the classification system.

ENVIRONMENTAL FACTORS CONTRIBUTING TO LAKE VULNERABILITY

Lake Surface Area

Lake surface area is an important determinant of the ability of a lake to support shoreline development and avoid lake user conflicts. As a general rule, smaller lakes (under 50 acres in size) are more susceptible to environmental degradation and visual impacts resulting from shoreland development and intensive recreational use.

The majority of the lakes in Douglas County, particularly in the southeastern one-third of the county, are small land-locked lakes that are extremely vulnerable to development in the shoreland zone and intensive recreational use.

The following scoring factors are used to rank lakes based on their surface area. The lower scores indicate greater lake vulnerability.

| Lake Surface Area | Scoring |
|--------------------|---------|
| Less than 50 acres | 1 |
| 50 to 249 acres | 2 |
| 250 or more acres | 3 |

Maximum Depth

Lake maximum depth is used as a second indicator of vulnerability. Shallower lakes, which do not stratify, have greater circulation of dissolved nutrients that enter the lakes. These lakes tend to have a larger variety of aquatic plant communities that are valuable for a wide range of wildlife and fish. Beds of aquatic plant materials can easily be disturbed by intensive water recreation use and shoreline activities, such as cutting and chemical treatment of aquatic vegetation to create swimming and docking areas.

Shallow lakes are particularly susceptible to nutrient loading and turbidity problems, both of which can be increased by intensive shoreline development and recreational use. In general, shallower lakes are more appropriate for wildlife habitat protection and passive recreation than

for motor boating, water skiing, and other more intensive lake uses associated with shoreline development.

The following scoring factors are used to rank lakes based on the maximum depth. The lower scores indicate greater lake vulnerability.

| Maximum Lake Depth | Scoring |
|--------------------|---------|
| Less than 20 feet | 1 |
| 20 to 39 feet | 2 |
| 40 or more feet | 3 |

Shoreline Soil Group

The USDA - NRCS has assisted Douglas County by providing a ranking of soils association and land types in the county based on limitations for building suitability and private septic system suitability.

The following scoring factors are used to rank lakes based on shoreline soil group. The lower scores indicate greater lake vulnerability.

| Soil Association | Scoring |
|--|---------|
| Group 5 Organic and wetland soils | 1 |
| Group 4 Sandy outwash soils Group 2 Clayey tills and modified lacustrine soils | 2 2 |
| Group 3 Sandy tills and outwash | 3 |
| Group 1 Coarse-loamy tills | 4 |

The sandy outwash soils (Soils Group 4) are the predominant soil association in the southeastern part of the county. As a general rule, many of the smaller, shallow sandy-bottomed lakes are located in this part of the county. Most of these lakes are ranked moderately vulnerable (Scoring 2) with respect to soils.

Lakes in areas with extensive organic soils and wetland soils (Soils Group 5) receive are the most vulnerable (Scoring 1) under the ranking system.

Lake Type

In Douglas County, the majority of lakes, particularly in the sandy southeastern third of the county, are seepage lakes formed by groundwater seeping into depressions in the glacial outwash plain. Most of these lakes are "landlocked" and have no external drainage. These lakes are the most vulnerable to premature eutrophication and contamination caused by development in the shoreland zone.

Drainage lakes flow into the surface water system of rivers and streams. All of the lake chains that drain into the St. Croix, Bois Brule, and Eau Claire Rivers are examples of drainage lakes. These lakes, along with manmade impoundments, possess varying degrees of ability to naturally circulate and flush nutrients and other forms of contaminants, but generally these lakes are less

vulnerable to environmental damage than the seepage lakes. A third category of lakes is spring lakes that are fed primarily by natural springs. These lakes have intermediate vulnerability.

The following scoring is used to rank lake vulnerability with respect to lake type. The lower scores indicate greater lake vulnerability.

| Lake Type | Scoring |
|---------------------------------------|---------|
| Coope as Lake (CE) | 1 |
| Seepage Lake (SE) Spring Lake (SP) | 2 |
| Drainage Lake (DG) | 3 |

Watershed Area

The natural ability of lakes to flush and circulate water is also a function of watershed size, lake volume, and average rainfall. Lakes with larger watersheds tend to have a higher volume of water circulating through them and may have higher flushing rates.

Lakes with smaller watersheds tend to have a lower nutrient input; however, nutrients accumulate because of longer retention times. Generally lakes with smaller watersheds and long retention times are more vulnerable to nutrient loading from activities that occur in the shoreland zone, which is a larger percentage of the total watershed area.

The following scoring is used to rank lake vulnerability with respect to watershed size. The lower scores indicate greater lake vulnerability.

| Watershed Size | Scoring |
|-------------------------|---------|
| Under 1 square mile | 1 |
| 1 to 9 square miles | 2 |
| 10 or more square miles | 3 |

Shoreline Development Factor (SDF)

Shoreline development factor (SDF) is a convenient method of expressing the degree of irregularity of the shoreline of a lake compared to the surface area. The SDF ratio is the length of shoreline versus the circumference of a circle having the same surface area as the lake. A perfectly round lake would have a surface area of 1.00. The SDF can never be less than 1.00.

Lakes with a higher SDF have more shoreline in relation to the surface area and thus are more vulnerable to development pressures per linear foot of shoreline that is developed. These lakes can more easily become overdeveloped and are more susceptible to various types of contamination and runoff resulting shoreline development.

The following scoring is used to rank lake vulnerability with respect to the shoreline development factor (SDF). The lower scores indicate greater lake vulnerability.

| Shoreline Development Factor (SDF) | Scoring |
|------------------------------------|---------|
| | _ |
| 2.00 or more | 1 |
| 1.50 to 1.99 | 2 |
| 1.00 to 1.49 | 3 |

LAKE CLASSIFICATION SCORING CRITERIA SUMMARY

| Less than 50 acres 2 50 to 249 acres 2 250 acres or more 3 Maximum Lake Depth Scoring Less than 20 feet 1 20 to 39 feet 2 40 or more feet 3 Soil Association Scoring Organic and wetland soils (Group 5) 1 Sandy outwash soils (Group 4) 2 Clayey tills and modified lacustrine soils(Group 2) 2 Sandy tills and outwash (Group 3) 3 Coarse-loamy tills (Group 1) 4 Lake Type Scoring Seepage Lake (SE) 1 |
|---|
| 50 to 249 acres 250 acres or more 3 Maximum Lake Depth Scoring Less than 20 feet 20 to 39 feet 20 or more feet 3 Soil Association Scoring Organic and wetland soils (Group 5) Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Scoring Scoring |
| 250 acres or more Maximum Lake Depth Scoring Less than 20 feet 20 to 39 feet 240 or more feet 3 Soil Association Scoring Organic and wetland soils (Group 5) Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Less than 20 feet 20 to 39 feet 40 or more feet Soil Association Scoring Organic and wetland soils (Group 5) Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| 20 to 39 feet 2 40 or more feet 3 Soil Association Scoring Organic and wetland soils (Group 5) 1 Sandy outwash soils (Group 4) 2 Clayey tills and modified lacustrine soils(Group 2) 2 Sandy tills and outwash (Group 3) 3 Coarse-loamy tills (Group 1) 4 Lake Type Scoring Seepage Lake (SE) 1 |
| Soil Association Scoring Organic and wetland soils (Group 5) Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Soil Association Organic and wetland soils (Group 5) Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Organic and wetland soils (Group 5) Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Sandy outwash soils (Group 4) Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Clayey tills and modified lacustrine soils(Group 2) Sandy tills and outwash (Group 3) Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) |
| Sandy tills and outwash (Group 3) 3 Coarse-loamy tills (Group 1) 4 Lake Type Scoring Seepage Lake (SE) 1 |
| Coarse-loamy tills (Group 1) Lake Type Scoring Seepage Lake (SE) 1 |
| Seepage Lake (SE) 1 |
| 1 0 |
| |
| Spring Lake (SP) 2 |
| Drainage Lake (DG) 3 |
| Watershed Size Scoring |
| Under 1 square mile 1 |
| 1 to 9 square miles 2 |
| 10 or more square miles 3 |
| Shoreline Development Factor (SDF) Scoring |
| 2.00 or more 1 |
| 1.50 to 1.99 2 |
| 1.00 to 1.49 |
| Overall Vulnerability Ranking Lake Classification |
| Total score 11 or under Class 1 |
| Total score 12 to 13 Class 2 |
| Total score 14 or more Class 3 |

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|-------------------------|-----------------------------------|---|------------------------|--------------------|------------------------|--|-------------------------|-----------------------------|------------------------|
| Lake Name | Location Sec Town- Range | Surface Area Score | Max. Depth Score | Lake Type Score | Soll Group Score | Shoreline Development Factor Score | Watershed Size Score | Lake Vulnerability Score | Lake Classification |
| | | (A) | (B) | (C) | (D) | (E) | (F) | (A+B+C+D+E+F) | |
| Alexander Lake | 12-43-11 | 1 | 1 | 1 | | 3 | 1 | 9 | Class 1 |
| Amnicon Lake | 12-46-14 | 3 | 2 | 3 | 2 | 1 | 2 | 13 | Class 2 |
| Anderson Lake | 13-46-11 | 1 | 2 | 1 | 3 | 3 | 1 | 11 | Class 2 |
| Apple Lake | 8-43-12 | | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Bass Lake | 10-43-12 | 2 | 2 | 1 | 2 | 3 | 2 | 12 | Class 2 |
| Bass Lake | 33-45-11 | 2 | 1 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Bear Lake | 10-45-14 | <u>= = </u> | 1 | 3 | 2 | 3 | 2 | 12 | Class 2 |
| Beaupre Springs | 9-45-11 | ' | 1 | 2 | 2 | 3 | 2 | 11 | Class 1 |
| Beauregard Lake | 35-45-10 | 2 | 1 | 1 | 3 | 2 | 1 | 10 | Class 1 |
| Beglinger Lake | 10-43-12 | <u>-</u> | 3 | 1 | 2 | 3 | 1 | 11 | Class 1 |
| Bennett Lake | 10-43-12 | <u>_</u> | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Bergen Creek Springs | 33-43-12 | <u>i</u> | 1 | 2 | 2 | 1 | 1 | 8 | Class 1 |
| Big Lake | 10-46-10 | 1 | | 3 | 2 | 3 | 3 | 13 | Class 2 |
| Big Spring | 17-45-11 | | | 2 | 2 | 2 | 1 | 9 | Class 1 |
| Bird Sanctuary | 14-44-12 | 1 | 1 | 1 | 2 | 2 | 1 | 8 | Class 1 |
| Black Fox Lake | 22-45-10 | 1 | 1 | 1 | 2 | 2 | 1 | 8 | Class 1 |
| Black Lake | 19-45-15 | 2 | 1 | 3 | 1 | 2 | 3 | 12 | Class 2 |
| Blue Spring | 36-46-11 | 1 | 1 | 2 | 2 | 3 | 1 | 10 | Class 1 |
| Bluegill Lake | 15-43-12 | 1 | 3 | 1 | 2 | 3 | 1 | 11 | Class 1 |
| Bond Lake | 28-43-12 | 3 | 3 | 1 | 2 | 2 | 2 | 13 | Class 2 |
| Boot Lake | 33-45-10 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Breitzman Lake | 23-46-15 | 1 | 2 | 1 | 4 | 3 | 1 | 12 | Class 2 |
| Buckley Spring | 20-43-13 | 1 | 1 | 2 | 2 | 2 | 1 | 9 | Class 1 |
| Buffalo Lake | 35-43-12 | 1 | 2 | 1 | 2 | 3 | 2 | 11 | Class 1 |
| Catherine Lake | 36-45-10 | 2 | 1 | 1 | 2 | 1 | 2 | 9 | Class 1 |
| Cedar Island Pond | 21-46-10 | 1 | 1 | 3 | 2 | 1 | 1 | 9 | <u>Class</u> 1 |
| Chain Lake, Lower | 22-43-11 | 2 | 1 | 1 | 2 | 3 | 2 | 11 | Class 1 |
| Chain Lake, Upper | 21-43-11 | 2 | 1 | 1 | 2 | 2 | 2 | 10 | Class 1 |
| Cheney Lake | 14-45-11 | 1 | 1 | 1 | 2 | 2 | 1 | 8 | Class 1 |
| Clear Lake | 15-43-12 | 1 | 2 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Clyde Lake | 26-43-11 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Coffee Lake | 22-46-11 | 1 | 2 | 1 | 3 | 3 | 1 | 11 | Class 1 |
| Cranberry Lake | 24-43-13 | 2 | 1 | 3 | 2 | 3 | 2 | 13 | Class 2 |
| Cranberry Creek Flowage | 26-43-13 | 3 | 1 | 3 | 2 | 2 | 3 | 14 | Class 3 |
| Cranberry Spring | 18-43-12 | 1 | 1 | 2 | 2 | 2 | 1 | 9 | Class 1 |

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| Lake Name | Location Sec Town- Range | Surface Area Score | Max. Depth Score | Lake Type Score | Soil Group Score | Shoreline Development Factor Score | Watershed Size Score | Lake Vulnerability Score | Lake Classification |
|---------------------------|-----------------------------------|--------------------------|------------------------|--------------------|------------------------|--|-------------------------|-----------------------------|------------------------|
| | 19 | (A) | (B) | (C) | (D) | (E) | (F) | (A+B+C+D+E+F) | |
| | - | | | | | | | | |
| Cream Lake | 22-46-11 | 1 | 1 | 1 | 3 | 3 | 1 | 10 | Class 1 |
| Crooked Lake | 17-43-10 | 1 | | 1 | 2 | 3 | 2 | 10 | Class 1 |
| Crotty Lake | 32-43-11 | _ 2 | 1 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Crystal Lake | 23-43-13 | 3 | 2 | 1 | 2 | 2 | 2 | 12 | Class 2 |
| Deer Lake | 11-43-13 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Deer Lake | 2-46-11 | 1 | | 1 | 3 | 2 | 1 | 9 | Class 1 |
| Deer Lake | 10-46-13 | 1 | | 1 | 4 | 3 | 1 | 11 | Class 1 |
| Deer Print Lake | 21-45-10 | 1 | 1 | 1 | 2 | 2 | 1 | 8 | Class 1 |
| Dowling Lake | 18-46-13 | 2 | 1 | 3 | 2 | 3 | 2 | 13 | Class 2 |
| Eau Claire River Flowage | 5-43-11 | 2 | 2 | 3 | 2 | 1 | 3 | 13 | Class 2 |
| Ellison Lake | 24-45-10 | 2 | 1 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Ferguson Lake | 34-45-12 | 1 | 1 | 3 | 2 | 3 | 2 | 12 | Class 2 |
| Flamang Lake | 1-44-11 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Flat Lake | 3-44-11 | 2 | 1 | 1 | 2 | 2 | 1 | 9 | Class 1 |
| Gander Lake | 22-46-11 | 2 | 2 | 1 | 3 | 3 | 1 | 12 | Class 2 |
| Gilbert Lake | 6-45-11 | 1 | 1 | 1 | 2 | 2 | 1 | 8 | Class 1 |
| Goose Lake | 10-43-10 | 1 | 1 | 1 | 2 | 3 | 2 | 10 | Class 1 |
| Grover Lake | 8-43-11 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Harriet Lake | 7-43-11 | 1 | 1 | 1 | _2 | 3 | 1 | 9 | Class 1 |
| Haugen Lake (Pagan) | 7-43-10 | 1 | 2 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| High Life Lake | 23-45-10 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Hoodoo Lake | 26-47-10 | 1 | | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Hopkins Lake | 24-45-10 | 1 | | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Horseshoe Lake (Tank) | 18-46-10 | 1 | 3 | 1 | 3 | 3 | 1 | 12 | Class 2 |
| Horseshoe Springs | 8-44-10 | 1 | 1 | | 2 | 1 | 1 | 8 | Class 1 |
| Interfalls Lake (Manitou) | 28-47-14 | 1 | 1 | | 2 | 1 | 3 | 11 | Class 1 |
| Island Lake | 29-45-11 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Jack Pine Lake | 22-45-10 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Kreide Lake | 13-43-12 | 1 | | 1 | 2 | 2 | 1 | 8 | Class 1 |
| Lake of the Woods | 17-45-11 | 1 | 1 | 1 | 2 | 2 | 1 | 8 | Class |
| Leader Lake | 21-43-12 | 2 | 3 | | 2 | 2 | 1 | 11 | Class 1 |
| Little Sand Lake | 35-43-14 | 2 | 2 | | 2 | 3 | 1 | 11 | Class |
| Little Simms Lake | 31-44-10 | | 1 | | 2 | 3 | | 9 | Class 1 |
| Little Steele Lake | 27-47-11 | <u>-</u> | 1 | | 3 | 3 | | 13 | Class |
| Long Lake | 11-43-12 | 1 | 1 | | 2 | 2 | | | Class |
| | 31-45-11 | 1 | 2 | | 2 | 3 | | 10 | Class |
| Long Lake | 10-46-13 | 1 | 1 | | 4 | 2 | | | Class |
| Long Lake | 36-43-11 | 1 | 1 | | 2 | 3 | | | Class |
| Loon Lake | 27-43-13 | | 1 | | 2 | 3 | | | Class 1 |

| Lake Name | Location Sec Town- Range | Surface Area Score | Max. Depth Score | Lake Type Score | Soil Group Score | Shoreline Development Factor Score | Watershed Size Score | Score | Lake Classification |
|------------------------|-----------------------------------|--------------------------|------------------------|--------------------|------------------------|--|-------------------------|---------------|------------------------|
| | ., | (A) | (B) | (C) | (D) | (E) | (F) | (A+B+C+D+E+F) | |
| | | | | | | | | | |
| Loon Lake | 13-45-10 | 2 | 2 | 1 | 2 | 3 | 1 | 11 | Class 1 |
| Lower Eau Claire Lake | 25-44-10 | 3 | 3 | | 2 | 2 | 3 | 16 | Class 3 |
| Lower Ox Flowage | 8-44-11 | 1 | 1 | | 2 | 1 | 2 | 10 | Class 1 |
| Lund Lake | 2-44-10 | 2 | 2 | | 2 | 3 | 2 | 12 | Class 2 |
| Lydon Lake | 2-46-11 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Lyman Lake | 22-46-13 | 3 | 1 | 3 | 4 | 1 | 3 | 15 | Class 3 Class 1 |
| Lynch Spring | 17-45-11 | 1 | 1 | 2 | 2 | 3 | 1 | 10 | Class 1 |
| McDougal Spring | 29-46-10 | 1 | 1 | 2 | 2 | 1 | 1 | 8 | Class 1 |
| McGraw Lake | 31-43-14 | 2 | 2 | | 2 | 2 | 2 | 11 | Class 1 |
| Metzger Lake | 1-44-11 | 1 | 2 | | 2 | 3 | 1 | 10 | Class 1 |
| Mills Lake | 5-45-11 | 1 | 1 | 1 | 2 | 1 | 1 | | Class 1 |
| Minnesuing Lake | 16-46-11 | 3 | 3 | | 3 | 1 | 3 | 16 | Class 3 |
| Minong Flowage (Nancy) | 36-43-13 | 3 | 2 | _ | 2 | 1 | 3 | 14 | Class 3 |
| Minnow Lake | 19-47-10 | 1 | 1 | | 3 | 3 | 1 | 10 | Class 1 |
| Mirror Lake | 26-45-10 | 1 | 1 | | 3 | 3 | 2 | 11 | |
| Moose Branch Flowage | 34-45-13 | 1 | 1 | | 4 | 1 | 2 | 12 | Class 2 Class 2 |
| Moose Lake | 31-45-12 | 1 | 1 | | 4 | 3 | 2 | 12 | Class 2 |
| Muck Lake | 35-43-12 | 1 | 1 | | 2 | 3 | 1 | 9 | Class 1 |
| Muck Lake | 12-45-10 | 1 | 1 | | 2 | 3 | 2 | | |
| Mud Creek Springs | 31-45-10 | 1 | 1 | | 2 | 1 | 1 | 8 | Class 1 |
| Mud Lake | 12-44-10 | 2 | 1 | | 2 | 2 | 1 | 9 | Class 1 |
| Mud Lake | 14-46-14 | 1 | 1 | | 2 | 3 | 2 | 10 | Class 1 |
| Mulligan Lake | 13-43-11 | 2 | 1 | | 2 | 3 | 2 | 13 | Class 2 |
| Murray Lake | 24-45-10 | 1 | 1 | | 2 | 1 | 1 | 7 | Class 1 |
| Muskrat Lake | 28-45-11 | 1 | 1 | | 2 | 2 | 1 | 8 | Class 1 |
| Nebagamon Lake | 35-47-11 | 3 | | | 3 | 1 | 3 | | Class 3 |
| Newman Lake | 8-46-13 | 1 | | | 4 | 1 | 1 | 9 | |
| One Buck Lake | 8-46-13 | 1 | 2 | 1 | 4 | 3 | 1 | 12 | Class 2 |
| One Mile Lake | 12-43-12 | 1 | 1 | 1 | 2 | 1 | 2 | 8 | Class 1 |
| Paradise Lake | 22-45-10 | 1 | | | 2 | 3 | 1 | 9 | Class 1 |
| Park Creek Pond | 26-45-12 | 1 | 1 | 3 | | 3 | 2 | | Class 2 |
| Person Lake | 22-43-13 | 2 | 1 | | 2 | 1 | 2 | | Class 1 |
| Peterson Lake | 36-43-12 | 1 | 1 | | 2 | 3 | | 9 | Class 1 |
| Pickerel Lake | 21-43-12 | | | | 2 | 2 | 1 | 10 | Class 1 |
| Pine Lake | 32-47-10 | 1 | | | 3 | 2 | 1 | 9 | Class 1 |
| Plate Lake | 12-46-11 | 1 | 2 | 1 | 3 | 3 | | | Class 2 |
| Poplar River Pond | 6-47-11 | 1 | 1 | | | 2 | | | Class 2 |
| Radigan Flowage | 10-43-15 | 2 | 1 | | | 1 | | | Class 3 |
| Rainbow Lake | 11-43-12 | 1 | 2 | 1 | 2 | 3 | 1 | 10 | Class 1 |

| Lake Name | Location Sec Town- Range | Surface Area Score | Max. Depth Score | Lake Type Score | Soil Group Score | Shoreline Development Factor Score | Watershed Size Score | Lake Vuinerability Score | Lake Classification |
|----------------------------|-----------------------------------|--------------------------|------------------------|--------------------|------------------------|--|-------------------------|-----------------------------|------------------------|
| | | (A) | (B) | (C) | (D) | (E) | (F) | (A+B+C+D+E+F) | |
| | | | - | | | | | | |
| Red Lake | 29-43-11 | 3 | 2 | 1 | 2 | 2 | 2 | 12 | Class 2 |
| Reichuster Lake | 3-46-14 | 1 | 1 | 1 | 4 | 3 | 2 | 12 | Class 2 |
| Rock Lake | 33-45-10 | 1 | 1 | 1 | 2 | 1 | 2 | 8 | Class 1 |
| Round Lake | 12-43-13 | 1 | 3 | 1 | 2 | 3 | 1 | 11 | Clas 1 |
| Round Lake | 15-46-13 | 1 | 1 | 1 | 4 | 3 | 1 | 11 | Class 1 |
| Rush Lake | 12-46-10 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| St. Croix Flowage (Gordon) | 34-44-12 | 3 | 2 | 3 | 2 | 1 | 3 | 14 | Class 3 |
| Sand Lake | 13-45-10 | 2 | 1 | 1 | 4 | 3 | 1 | 12 | Class 2 |
| Saunders Pond | 34-47-10 | 1 | 1 | 2 | 3 | 2 | 1 | 10 | Class 1 |
| Sauntrys Pocket | 1-43-11 | 2 | 1 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Sawyer Lake | 30-43-10 | 1 | 11 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Scott Lake | 1-43-13 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Scout Lake | 16-46-13 | . 1 | 1 | 3 | 4 | 3 | 1 | 13 | Class 2 |
| Seventeen Lake | 17-45-14 | 1 | 1 | 1 | 4 | 3 | 1 | 11 | Class 1 |
| Shoberg Lake | 12-45-11 | 1 | 1 | 1 | 2 | 3 | 2 | 10 | Class 1 |
| Simms Lake | 25-44-11 | 2 | 3 | 1 | 2 | 3 | 1 | 12 | Class 2 |
| Smith Lake | 11-45-11 | 1 | 1 | . 1 | 2 | 3 | 1 | 9 | Class 1 |
| Snake Lake | 19-43-10 | 2 | 2 | 1 | 2 | 3 | 2 | 12 | Class 2 |
| Snipe Lake | 7-43-12 | 1 | 2 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Spider Lake | 5-43-12 | 2 | 1 | 1 | 2 | 1 | 2 | 9 | Class 1 |
| Spring Lake | 3-46-10 | 1 | 1 | 3 | 2 | 1 | 3 | 11 | Class 1 |
| Steele Lake | 33-47-11 | 2 | 1 | 1 | 3 | 3 | 2 | 12 | Class 2 |
| Sullivan Lake | 20-43-11 | 2 | 1 | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Sunfish Lake (Redding) | 18-46-10 | 1 | 2 | 1 | 3 | 3 | 1 | 11 | Class 1 |
| Swenson Lake | 23-44-11 | 1 | 1 | 1 | 2 | 1 | 1 | 7 | Class 1 |
| Thorne Lake | 8-43-10 | 1 | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Three Buck Lakes, Lower | 24-46-13 | 1 | 1 | 1 | 4 | 3 | 1 | 11 | Class 1 |
| Three Buck Lakes, Middle | 24-46-13 | 1 | 1 | 1 | 4 | 1 | 1 | 9 | Class 1 |
| Three Buck Lakes, Upper | 13-46-13 | 1 | 1 | 1 | 4 | 3 | 1 | 11 | Class 1 |
| Twin Lakes, East | 27-45-11 | 2 | 1 | 1 | 2 | 2 | 2 | 10 | Class 1 |
| Twin Lakes, West | 28-45-11 | 2 | | 1 | 2 | 3 | 1 | 10 | Class 1 |
| Twin Lakes, North | 4-46-11 | 1 | 1 | 3 | 3 | 3 | 1 | 12 | Class 2 Class 2 |
| Twin Lakes, South | 4-46-11 | 1 | 1 | 3 | 3 | 3 | <u>1</u> | 12 | Class 2 |
| Two-Mile Lake | 12-43-12 | 2 | 2 | 1 | 2 | 3 | | 11 | |
| Upper Ox Flowage | 14-44-11 | 2 | 1 | 3 | 2 | 2 | 2 | | Class 2 |
| Upper St. Croix Lake | 25-45-12 | 3 | 2 | 3 | 2 | 1 | <u>3</u> | 14 | Class 3 Class 1 |
| Wagner Lake | 15-43-12 | 1 | 2 | 1 | 2 | 3 | <u>1</u> | 10 | |
| Wascott Lake | 26-43-12 | 1 | 1 | 1 | 2 | 1 | | 11 | Class 1 |
| Webb Lake | 5-43-12 | 2 | 2 | ı 11 | 2 | 3 | 1 | 11 | Class 1 |

| Lake Name | Location Sec Town- Range | Surface Area Score | Max. Depth Score | Lake Type Score | Soli Group Score | Shoreline Development Factor Score | Watershed Size Score | Lake Vulnerability Score | Lake Classification |
|-------------------------|-----------------------------------|--------------------------|------------------------|--------------------|------------------------|--|-------------------------|-----------------------------|------------------------|
| | | (A) | (B) | (C) | (D) | (E) | (F) | (A+B+C+D+E+F) | |
| | | | | | | | | | |
| Whiskey Lake | 18-46-10 | 1 | 2 | 1 | 3 | 2 | 1 | 10 | Class 1 |
| Whitefish Lake (Bardon) | 16-43-12 | 3 | 3 | 1 | 2 | 2 | 2 | 13 | Class 2 |
| Whiteside Lake (German) | 8-44-10 | | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Wilson Lake | 14-43-13 | | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |
| Yoekel Lake | 35-43-12 | | 1 | 1 | 2 | 3 | 1 | 9 | Class 1 |

| DOUGLAS COUNTY L | _AKES | | | | | | | |
|-------------------------|---------------------------|----------------------------|-------------------------|------------|---------------|------------------------------------|-------------------------------|--|
| RESOURCE CHARACT | TERISTICS | | | | | | | |
| Lake Name | Location SecTown-Range | Surface Area (acres) | Max. Depth (feet) | Lake Type | Soll Group | Shoreline Development Factor | Watershed Size (sq. miles) | Watershed Size/Surface Area Ratios |
| Alexander Lake | 12-43-11 | 49 | 10 | SE | - 4 | 1.40 | 0.99 | 12.93 |
| Amnicon Lake | 12-46-14 | 426 | 31 | DG | 4 | 2.70 | 4.83 | 7.26 |
| Anderson Lake | 13-46-11 | 6 | 23 | SE | 3 | 1.27 | 0.19 | 20.27 |
| Apple Lake | 8-43-12 | 6 | 11 | SE. | 4 | 1.13 | 0.55 | 58.67 |
| Bass Lake | 10-43-12 | 126 | 26 | | 4 | 1.20 | 1.03 | 5.23 |
| Bass Lake | 33-45-11 | 52 | 14 | SE | 4 | 1.48 | 0.40 | 4.92 |
| Bear Lake | 10-45-14 | 49 | 14 | DG | 4 | 1.40 | 5.50 | 71.84 |
| Beaupre Springs | 9-45-11 | 2 | 5 | 59 | 4 | 1.46 | 1.01 | 323.20 |
| Beauregard Lake | 35-45-10 | 91 | 19 | Œ | 3 | 1.78 | 0.68 | 4.78 |
| Beglinger Lake | 10-43-12 | 11 | 47 | Œ | 4 | 1.21 | 0.16 | 9.31 |
| Bennett Lake | 10-43-12 | 30 | 17 | SE | 4 | 1.27 | 0.43 | 9.17 |
| Bergen Creek Springs | 33-43-12 | 7 | 6 | SP | 4 | 3.27 | 0.49 | 44.80 |
| Big Lake | 10-46-10 | 41 | 7 | DG | 4 | 1.33 | 38.05 | 593.95 |
| Big Spring | 17-45-11 | 1 | 4 | SP. | 4 | 1.51 | 0.08 | 51.20 |
| Bird Sanctuary | 14-44-12 | 10 | 8 | SE. | 4 | 1.67 | 0.18 | 11.52 |
| Black Fox Lake | 22-45-10 | 36 | 5 | SE | 4 | 1.71 | 0.21 | 3.73 |
| Black Lake | 19-45-15 | 80 | 4 | DG | 5 | 1.78 | 24.00 | 192.00 |
| Blue Spring | 36-46-11 | 1 | 4 | 5 P | 4 | 1.21 | 0.01 | 6.40 |
| Bluegifl Lake | 15-43-12 | 21 | 77 | SE | 4 | 1.16 | 0.12 | 3.66 |
| Bond Lake | 28-43-12 | 292 | 64 | SE | 4 | 1.59 | 1.86 | 4.08 |
| Boot Lake | 33-45-10 | 16 | 2 | SE | 2 | 1.21 | 0.22 | 8.80 |
| Breitzman Lake | 23-46-15 | 13 | 21 | SE. | 1 | 1.01 | 0.26 | 12.80 |
| Buckley Spring | 20-43-13 | 4 | 10 | 8 | 4 | 1.97 | 0.44 | 70.40 |
| Buffalo Lake | 35-43-12 | 42 | 33 | SE | 4 | 1.24 | 1.08 | 16.46 |
| Catherine Lake | 36-45-10 | 72 | 11 | Œ | 4 | 2.21 | 1.60 | 14.22 |
| Cedar Island Pond | 21-46-10 | 27 | 15 | DG | 4 | 5.99 | 0.98 | 23.23 |
| Chain Lake, Lower | 22-43-11 | 98 | 11 | SESE | 4 | 1.22 | 1.06 | 6.92 |
| Chain Lake, Upper | 21-43-11 | 77 | 5 | SE | 4 | 1.85 | 1.50 | 12.47 |
| Cheney Lake | 14-45-11 | 20 | 17 | Œ | 4 | 1.66 | 0.20 | 6.40 |
| Clear Lake | 15-43-12 | 36 | 39 | SE. | 4 | 1.07 | 0.59 | 10.49 |
| Clyde Lake | 26-43-11 | 49 | 11 | 9E | 4 | 1.23 | 0.56 | 7.31 |
| Coffee Lake | 22-46-11 | 11 | 31 | SE. | 3 | 1.21 | 0.37 | 21.53 |
| Cranberry Lake | 24-43-13 | 172 | 19 | DG | 4 | 1.50 | 3.06 | 11,39 |
| Cranberry Creek Flowage | 26-43-13 | 346 | 6 | DG | 4 | 1.67 | 10.04 | 18.57 |
| Cranberry Spring | 18-43-12 | 1 | 12 | SP | 4 | 1.91 | 0.13 | 83.20 |

| Lake Name | Location SecTown-Range | Surface Area (acres) | Max. Depth (feet) | Lake Type | Group | Shoreline Development Factor | Watershed Size (sq. miles) | Watershed Size/Surface Area Ratios |
|---------------------------|---------------------------|----------------------------|-------------------------|-----------|-------|------------------------------------|-------------------------------|--|
| Cream Lake | 22-46-11 | 5 | 17 | SE | 3 | 1.05 | 0.61 | 78.08 |
| Crooked Lake | 17-43-10 | 32 | 9 | | 4 | 2.00 | 1.86 | 37.20 |
| Crotty Lake | 32-43-11 | 52 | 16 | | 4 | 1.48 | 0.62 | |
| Crystal Lake | 23-43-13 | 292 | 21 | SE | 4 | 1.92 | 1.69 | 3.70 |
| Deer Lake | 11-43-13 | _19 | 19 | | 4 | 1,33 | 0.54 | |
| Deer Lake | 2-46-11 | 49 | 6 | | 3 | 1.66 | 0.32 | 4.18 |
| Deer Lake | 10-46-13 | 5 | 28 | | 1 | 1.07 | 0.10 | 12.80 |
| Deer Print Lake | 21-45-10 | _ 20 | 7 | Œ | 4 | 1.88 | 0.14 | 4.48 |
| Dowling Lake | 18-46-13 | 154 | 13 | | 4 | 1.12 | 2.28 | 9.48 |
| Eau Claire River Flowage | 5-43-11 | 56 | 22 | DG | 4 | 3.02 | 21.79 | 249.03 |
| Ellison Lake | 24-45-10 | 110 | 18 | | 4 | 1.37 | 0.47 | <u>2.73</u> |
| Ferguson Lake | 34-45-12 | 10 | 7 | | 4 | 1.26 | 1.57 | 100.48 |
| Flamang Lake | 1-44-11 | 7 | 17 | SE. | 4 | 1.09 | 0.13 | 11.89 |
| Flat Lake | 3-44-11 | 58 | 4 | | 4 | 1.85 | 0.55 | 6.07 |
| Gander Lake | 22-46-11 | 54 | 27 | SE. | 3 | 1.36 | 0.27 | <u>3.20</u> |
| Gilbert Lake | 6-45-11 | 8 | 6 | SE | 4 | 1.55 | 0.15 | 12.00 |
| Goose Lake | 10-43-10 | 38 | 5 | SE. | _ 4 | 1.44 | 1.41 | 23.75 |
| Grover Lake | 8-43-11 | 7 | 10 | SE | 4 | 1.03 | 0.08 | 7.31 |
| Harriet Lake | 7-43-11 | 17 | 18 | SE. | 4 | 1.42 | 0.32 | 12.05 |
| Haugen Lake (Pagan) | 7-43-10 | 27 | 25 | SE | 4 | 1.37 | 0.81 | 19.20 |
| High Life Lake | 23-45-10 | 20 | 6 | SE | 4 | 1.43 | 0.19 | 6.08 |
| Hoodoo Lake | 26-47-10 | 32 | 13 | SE | 4 | 1.12 | 0.27 | 5.40 |
| Hopkins Lake | 24-45-10 | 15 | 17 | SE | 4 | 1.02 | 0.16 | 6.83 |
| Horseshoe Lake (Tank) | 18-46-10 | 4 | 4 5 | SE. | 3 | 1.35 | 0.16 | 25.60 |
| Horseshoe Springs | 8-44-10 | 6 | 4 | SP | 4 | 2.53 | 0.20 | <u>21</u> .33 |
| Interfalls Lake (Manitou) | 28-47-14 | 27 | 13 | DG | 2 | 2.24 | 79.79 | 1891.32 |
| Island Lake | 29-45-11 | 46 | 17 | SE | 4 | 1.33 | 0.52 | 7.23 |
| Jack Pine Lake | 22-45-10 | 15 | 12 | | 4 | 1.20 | 0.10 | 4.27 |
| Kreide Lake | 13-43-12 | 47 | 7 | SE | 4 | 1.55 | 0.81 | 11.03 |
| Lake of the Woods | 17-45-11 | 34 | 18 | SE | 4 | 1.61 | 0.60 | 11.29 |
| Leader Lake | 21-43-12 | 165 | 5€ | SE. | 4 | 1.95 | 0.80 | 3.10 |
| Little Sand Lake | 35-43-14 | 74 | 21 | | 4 | 1.10 | 0.79 | 6.83 |
| Little Simms Lake | 31-44-10 | 12 | 11 | | 4 | 1.14 | 0.14 | 7.47 |
| Little Steele Lake | 27-47-11 | 23 | 14 | DG | 3 | 1.19 | 2.92 | 81.25 |
| Long Lake | 11-43-12 | 17 | 5 | SE | 4 | 1.84 | 0.36 | 13,55 |
| Long Lake | 31-45-11 | 25 | 1.8 | | | 1.38 | 0.49 | 12.54 |
| Long Lake | 10-46-13 | 18 | 10 | | | 1.81 | 0.20 | 7.11 |
| Loon Lake | 36-43-11 | 41 | 15 | | | 1.41 | 0.25 | 3.90 |
| Loon Lake | 27-43-13 | 58 | 1.8 | | | | 0.66 | 7.28 |
| Loon Lake | 13-45-10 | | 20 | | | | 0.35 | 2.06 |
| Lower Eau Claire Lake | 25-44-10 | 802 | 42 | 2 DG | 4 | 1.73 | 10.86 | 8.67 |

Soll

Group

4

Surface

Area

(acres)

38

75

10

Location

Sec.-Town-Range

8-44-11

2-44-10

2-46-11

29-43-11

3-46-14

33-45-10

12-43-13

15-46-13

Lake Name

Lower Ox Flowage

Lund Lake

Lydon Lake

Rainbow Lake

Reichuster Lake

Red Lake

Rock Lake

Round Lake

Round Lake

Max.

Depth

(feet)

18

31

15

Lake Type

DG

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Shoreline

Development

Factor

2.45

1.18

1.15

1.51

1.11

2.38

1.01

1.01

Watershed Size

(sq. mlies)

5.22

1.50

0.11

1.44

1.13

1.40

0.24

0.30

Watershed

Size/Surface Area

Ratios

87.92

12.80

7.04

3.66

55.63

21.33

4.52

24.00

| Lydon Lake | 2-46-11 | _10 | 15 | | 4 | 1.15 | 0.11 | |
|-----------------------------|----------|-------|----|-------------|---|------|--------|---------------|
| Lyman Lake | 22-46-13 | 403 | 15 | DG | 1 | 2.44 | 49.67 | 78.88 |
| Lynch Spring | 17-45-11 | 2 | 11 | 9 | 4 | 1.48 | | 32.00 |
| McDougal Spring | 29-46-10 | 3 | 4 | æ | 4 | 3.41 | 0.19 | 40.53 |
| McGraw Lake | 31-43-13 | 135 | 25 | E. | 4 | 1.64 | 2.40 | 11.38 |
| Metzger Lake | 1-44-11 | 12 | 29 | <u>.</u> | 4 | 1.28 | 0.22 | <u>11</u> .73 |
| Mills Lake | 5-45-11 | 8 | 7 | SE | 4 | 3.49 | 0.15 | 12.00 |
| Minnesuing Lake | 16-46-11 | 432 | 43 | | 3 | 2.36 | 13.94 | 20.65 |
| Minnow Lake | 19-47-10 | 11 | 18 | SE SE | 3 | 1.08 | 0.39 | 22.69 |
| Minong Flowage (Lake Nancy) | 36-43-13 | 1,564 | 21 | | | 4.48 | 234.00 | 95.75 |
| Mirror Lake | 26-45-10 | 25 | 8 | E. | 3 | 1.25 | | |
| Moose Branch Flowage | 34-45-13 | 40 | 5 | DG | 1 | 2.15 | 2.62 | 41.92 |
| Moose Lake | 31-45-12 | 13 | 9 | Œ | 1 | 1.07 | 1.20 | 59.08 |
| Muck Lake | 35-43-12 | 19 | 5 | 85 | 4 | 1.13 | | 13.81 |
| Muck Lake | 12-45-10 | 39 | 6 | 85 | 4 | 1.38 | 1.03 | 16.90 |
| Mud Creek Springs | 31-45-10 | 4 | 12 | | 4 | 2.07 | 0.32 | 51.20 |
| Mud Lake | 12-44-10 | 56 | 6 | SE | 4 | 1.63 | 0.65 | 7.43 |
| Mud Lake | 14-46-14 | 47 | 3 | SE. | 4 | 1.29 | 1.02 | 13.89 |
| Mulligan Lake | 13-43-11 | 77 | 4 | DG | 4 | 1,50 | 2.55 | 21.19 |
| Murray Lake | 24-45-10 | 43 | 15 | | 4 | 1.03 | 0.13 | 1.93 |
| Muskrat Lake | 28-45-11 | 20 | 9 | 9 E. | 4 | 1.79 | 0.72 | 23.04 |
| Nebagamon Lake | 35-47-11 | 914 | 56 | | 3 | 2.53 | 27.59 | <u>1</u> 9.32 |
| Newman Lake | 8-46-13 | 12 | 12 | | 1 | 2.42 | 0,18 | 9.60 |
| One Buck Lake | 8-46-13 | 5 | 30 | | 1 | 1.10 | 0.03 | 3.84 |
| One Mile Lake | 12-43-12 | 39 | 6 | SE | 4 | 2.47 | 1.15 | 18.87 |
| Paradise Lake | 22-45-10 | 21 | 6 | SE | 4 | 1.05 | 0.25 | 7.62 |
| Park Creek Pond | 26-45-12 | 11 | 7 | DG | 4 | 1.11 | 1.93 | 112.29 |
| Person Lake | 22-43-13 | 172 | 10 | | 4 | 1.50 | 1.81 | 6.73 |
| Peterson Lake | 36-43-12 | 33 | 10 | | 4 | 1.17 | 0.15 | 2.91 |
| Pickerel Lake | 21-43-12 | 58 | 24 | SE. | 4 | 1.59 | 0.27 | 2.98 |
| Pine Lake | 32-47-10 | 12 | 8 | | 3 | 1.85 | 0.30 | 16.00 |
| Plate Lake | 12-46-11 | 1 | 22 | | | 1.23 | 1.32 | 844.80 |
| Poplar River Pond | 6-47-11 | 9 | 14 | | | 1.55 | | 2109.16 |
| Radigan Flowage | 10-43-15 | 62 | 10 | | | 2.62 | 34.88 | 360.05 |
| Rainbow Lake | 11-43-12 | 6 | 39 | SE | 4 | 1.11 | 0.22 | 23.47 |

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39

5

13

75

11

252

13

42

34

8

| Lake Name | Location SecTown-Range | Surface Area (acres) | Max. Depth (feet) | Lake Type | Soli Group | Shoreline Development Factor | Watershed Size (sq. miles) | Watershed Size/Surface Area Ratios |
|----------------------------|---------------------------|----------------------------|-------------------------|-----------|---------------|------------------------------------|-------------------------------|--|
| Rush Lake | 12-46-10 | 22 | 9 | E | 4 | 1.34 | 0.24 | 6.98 |
| St. Croix Flowage (Gordon) | 34-44-12 | 1,912 | | DG | 4 | 3.38 | 125.24 | 41.92 |
| Sand Lake | 13-45-10 | 98 | 16 | SE. | 1 | 1.04 | 0.41 | 2.68 |
| Saunders Pond | 34-47-10 | 2 | 8 | SP | 3 | 1.77 | 0.32 | 102.40 |
| Sauntrys Pocket | 1-43-11 | 110 | 9 | | 4 | 1,11 | 0.70 | 4.07 |
| Sawyer Lake | 30-43-10 | 12 | _ | , SE | 4 | 1.14 | 0.26 | 13.87 |
| Scott Lake | 1-43-13 | 22 | 14 | SE | 4 | 1.05 | 0.40 | 11.64 |
| Scout Lake | 16-46-13 | 30 | - 6 | DG | 1 | 1.06 | 0.65 | 13.87 |
| Seventeen Lake | 17-45-14 | 3 | 14 | SE | 1 | 1.11 | 0.50 | 106.67 |
| Shoberg Lake | 12-45-11 | 6 | 6 | SE | 4 | 1.28 | 1.48 | 157.87 |
| Simms Lake | 25-44-11 | 154 | 41 | SE. | 4 | 1.06 | 0.90 | 3.74 |
| Smith Lake | 11-45-11 | 30 | 5 | SE. | 4 | 1.46 | 0.67 | 14.29 |
| Snake Lake | 19-43-10 | 85 | 38 | SE | 4 | 1.45 | 1.02 | 7.68 |
| Snipe Lake | 7-43-12 | 21 | 20 | | 4 | 1,16 | 0.41 | 12,50 |
| Spider Lake | 5-43-12 | 63 | 15 | <u> </u> | 4 | 2.32 | 1,20 | 12.19 |
| Spring Lake | 3-46-10 | 12 | 8 | DG | 4 | 2.65 | 41.36 | 2205.87 |
| Steele Lake | 33-47-11 | 157 | 8 | SE | 3 | 1.44 | 1,11 | 4.52 |
| Sullivan Lake | 20-43-11 | 84 | 7 | SE. | 4 | 1.03 | 0.67 | 5.10 |
| Sunfish Lake (Redding) | 18-46-10 | 8 | 28 | SE | 3 | 1.24 | 0.91 | 72.80 |
| Swenson Lake | 23-44-11 | 15 | 15 | SE | 4 | 2.06 | 0.12 | 5.12 |
| Thome Lake | 8-43-10 | 29 | 9 | SE. | 4 | 1.31 | 0.90 | 19.86 |
| Three Buck Lakes, Lower | 24-46-13 | 3 | 7 | SE. | 1 | 1.47 | 0.03 | 6.40 |
| Three Buck Lakes, Middle | 24-46-13 | 1 | 6 | SE. | 1 | 3.09 | 0.04 | 25.60 |
| Three Buck Lakes, Upper | 13-46-13 | 2 | 6 | SE | 1 | 1.23 | 0.05 | 16.00 |
| Twin Lakes, East | 27-45-11 | 113 | 5 | SE. | 4 | 1.59 | 1.25 | 7.08 |
| Twin Lakes, West | 28-45-11 | 66 | 5 | SE | 4 | 1.21 | 0.21 | 2.04 |
| Twin Lakes, North | 4-46-11 | 19 | 14 | DG | 3 | 1.36 | 0.35 | 11.79 |
| Twin Lakes, South | 4-46-11 | 29 | 5 | Œ | 3 | 1.19 | 0.97 | 21.41 |
| Two-Mile Lake | 12-43-12 | 97 | 31 | Œ | 4 | 1.37 | 0.41 | 2.71 |
| Upper Ox Flowage | 14-44-11 | 64 | 19 | Œ | 4 | 1.59 | 9.79 | 97.90 |
| Upper St. Croix Lake | 25-45-12 | 855 | 22 | | 4 | 2.29 | 28.25 | 21.15 |
| Wagner Lake | 15-43-12 | 21 | 32 | 8 | 4 | 1.16 | 0.11 | 3.35 |
| Wascott Lake | 26-43-12 | 6 | 7 | Œ | 4 | 1.28 | 0.23 | 24.53 |
| Webb Lake | 5-43-12 | 55 | 25 | 95 | 4 | 1.27 | 0.64 | 7.45 |
| Whiskey Lake | 18-46-10 | 10 | 26 | 95 | 3 | 1.56 | 0.18 | 11.52 |
| Whitefish Lake | 16-43-12 | 832 | 102 | Œ | 4 | 1.71 | 4.29 | 3.30 |
| Whiteside Lake | 8-44-10 | 16 | 19 | Œ | 4 | 1.25 | 0.20 | 8.00 |
| Wilson Lake | 14-43-13 | 27 | 9 | Œ | 4 | 1.37 | 0.41 | 9.72 |
| Yoekel Lake | 35-43-12 | 5 | 7 | SE. | 4 | 1.21 | 0.19 | 24.32 |

4. SECTION 4 LIST OF LAKES BY CLASSIFICATION

The following classification lists identify lakes named in "Wisconsin Lakes," Wisconsin Department of Natural Resources, PUBL-FM-800 91 and appearing by name on the Douglas County 1:100,000 scale topographic map published by the U.S. Geological Survey, 1986.

Small or unnamed lakes not appearing on these lists are considered Class 1 Protection Lakes.

Class 1 lakes which do not have a habitable residence within 300 feet of the ordinary highwater mark are considered "wild lakes." The determination of whether a Class 1 lake qualifies as a "wild lake" will be made in the field by the Zoning Administrator.

It should be noted that Douglas County's shoreline regulation jurisdiction extends only to those portions of shoreline outside the boundaries of any incorporated municipality. Lakes with all or parts of the shorelines within incorporated municipalities are identified by community.

Class 1 Protection Lakes

Alexander Lake Anderson Lake Apple Lake

Bass Lake (T45N-R11W-S33)

Beaupre Springs

Beauregard Lake

Beglinger Lake

Bennett Lake

Bergen Creek Springs

Big Spring

Bird Sanctuary Lake

Black Fox Lake

Blue Spring

Bluegill Lake

Boot Lake

Breitzman Lake

Buckley Spring

Buffalo Lake

Catherine Lake

Cedar Island Pond

Chain Lake, Lower

Chain Lake, Upper

Cheney Lake

Clear Lake

Clyde Lake

Coffee Lake

Class 1 Protection Lakes List - Continued

Cranberry Spring

Cream Lake

Crooked Lake

Crotty Lake

Deer Lake T43N R13W S11

Deer Lake T46N R11W S2 (in the Village of Nebagamon)

Deer Lake T46N R13E S10

Deer Print Lake

Ellison Lake

Flamang Lake

Flat Lake

Gilbert Lake

Goose Lake

Grover Lake

Harriet Lake

Haugen Lake (Pagan)

High Life Lake

Hoodoo Lake

Hopkins Lake

Horseshoe Springs

Interfalls Lake (Manitou)

Island Lake

Jack Pine Lake

Kreide Lake

Lake of the Woods

Leader Lake

Little Sand Lake

Little Simms Lake

Long Lake T43N R12W S11

Long Lake T45N R11W S31

Long Lake T46N R13W S10

Loon Lake T45N R10W S13

Loon Lake T43N R11W S36

Loon Lake T43N R13W S27

Lower Ox Flowage

Lydon Lake (in the Village of Nebagamon)

Lynch Spring

McDougal Spring

McGraw Lake

Metzger Lake

Mills Lake

Minnow Lake

Mirror Lake

Muck Lake T43N R12W S35

Muck Lake T45N R10W S12

Mud Creek Springs

Mud Lake T44N R10W S12

Mud Lake T46N R14W S14

Murray Lake

Muskrat Lake

Newman Lake

Class 1 Protection Lakes List - Continued

One Mile Lake

Paradise Lake

Person Lake

Peterson Lake

Pickerel Lake

Pine Lake

Rainbow Lake

Rock Lake

Round Lake T43N R13W S12

Round Lake T46N R13W S15

Rush Lake

Saunders Pond

Sauntrys Pocket

Sawyer Lake

Scott Lake

Seventeen Lake

Shoberg Lake

Smith Lake

Snipe Lake

Spider Lake

Spring Lake

Sullivan Lake

Sunfish Lake (Redding) Swenson Lake

Thorne Lake

Three Buck Lakes, Lower

Three Buck Lakes, Middle

Three Buck Lakes, Upper

Twin Lakes, East

Twin Lakes, West

Two-Mile Lake

Wagner Lake

Wascott Lake

Webb Lake

Whiskey Lake

Whiteside Lake (German)

Wilson Lake

Yoekel Lake

Class 2 Protection Lakes

Amnicon Lake

Bass Lake T43N R12W S10

Bear Lake

Big Lake

Black Lake

Bond Lake

Breitzman Lake

Cranberry Lake

Crystal Lake

Dowling Lake

Eau Claire River Flowage

Ferguson Lake

Gander Lake

Horseshoe Lake (Tank)

Little Steele Lake (partially in the Village of Nebagamon)

Lund Lake

Moose Branch Flowage

Moose Lake

Mulligan Lake

One Buck Lake

Park Creek Pond (in the Village of Solon Springs)

Plate Lake

Poplar River Pond (in the Village of Poplar)

Red Lake

Reichuster Lake

Sand Lake

Scout Lake

Simms Lake

Snake Lake

Steele Lake

Twin Lakes, North

Twin Lakes, South

Upper Ox Flowage

Whitefish Lake (Bardon)

Class 3 Protection Lakes

Cranberry Creek Flowage

Lower Eau Claire Lake

Lyman Lake

Minnesuing Lake

Minong Flowage (Nancy)

Nebagamon (in the Village of Nebagamon)

Radigan Flowage

St Croix Flowage (Gordon)

Upper St. Croix Lake (partially in the Village of Solon Springs)