

Iowa Lakes Survey 2009

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

In order to make sound decisions concerning the future of Iowa lakes, it is important to understand how the lakes are used, as well as what factors influence your selection of lakes to visit. The answers you give to the questions in this survey are very important. Even if you have not visited any lakes in Iowa, please complete and return the questionnaire. It is critical for us to understand the characteristics and views of both those who use and those who do not use the lakes.

In this first section, we would like to find out which of the lakes on the enclosed map you visited and what you did there.

1. Please indicate which of the following is true for your household by checking the appropriate box.

- ☐ I have visited or plan to visit at least one of the lakes shown on the enclosed map this year (January-December 2009). *If you check this box, please proceed to the table starting below.*
- ☐ I have not visited nor do I plan to visit any of the lakes shown on the enclosed map this year. *If you check this box please proceed to question 3.*

Please indicate how often you or other members of your household visited each of the lakes listed in the table below and following on pages 4-6 during the current year (January-December 2009.)

Name of lake (County)	Number of visits (January-December 2009)	
	Single-day trips	Overnight trips
Lake Ahquabi (Warren)	#____(trips)	#____(trips)
Lake Anita (Cass)	#____(trips)	#____(trips)
Arbor Lake (Poweshiek)	#____(trips)	#____(trips)
Arrowhead Lake (Pottawattamie)	#____(trips)	#____(trips)
Arrowhead Pond (Sac)	#____(trips)	#____(trips)
Avenue of the Saints Lake (Bremer)	#____(trips)	#____(trips)
Badger Creek Lake (Madison)	#____(trips)	#____(trips)
Badger Lake (Webster)	#____(trips)	#____(trips)
Beaver Lake (Dallas)	#____(trips)	#____(trips)
Beeds Lake (Franklin)	#____(trips)	#____(trips)
Big Creek Lake (Polk)	#____(trips)	#____(trips)
Big Spirit Lake (Dickinson)	#____(trips)	#____(trips)
Black Hawk Lake (Sac)	#____(trips)	#____(trips)
Blue Lake (Monona)	#____(trips)	#____(trips)
Bob White Lake (Wayne)	#____(trips)	#____(trips)
Briggs Woods Lake (Hamilton)	#____(trips)	#____(trips)
Browns Lake (Woodbury)	#____(trips)	#____(trips)
Brushy Creek Lake (Webster)	#____(trips)	#____(trips)
Carter Lake (Pottawattamie)	#____(trips)	#____(trips)
Casey Lake (aka Hickory Hills) (Tama)	#____(trips)	#____(trips)
Center Lake (Dickinson)	#____(trips)	#____(trips)
Central Park Lake (Jones)	#____(trips)	#____(trips)

Name of lake (County)	Number of visits (January-December 2009)	
	Single-day trips	Overnight trips
Clear Lake (Cerro Gordo)	#____(trips)	#____(trips)
Cold Springs Lake (Cass)	#____(trips)	#____(trips)
Coralville Lake (Johnson)	#____(trips)	#____(trips)
Lake Cornelia (Wright)	#____(trips)	#____(trips)
Crawford Creek Impoundment (Ida)	#____(trips)	#____(trips)
Crystal Lake (Hancock)	#____(trips)	#____(trips)
Dale Maffitt Lake (Madison)	#____(trips)	#____(trips)
Lake Darling (Washington)	#____(trips)	#____(trips)
DeSoto Bend Lake (Harrison)	#____(trips)	#____(trips)
Diamond Lake (Poweshiek)	#____(trips)	#____(trips)
Dog Creek (Lake) (O'Brien)	#____(trips)	#____(trips)
Don Williams Lake (Boone)	#____(trips)	#____(trips)
East Lake (Osceola) (Clarke)	#____(trips)	#____(trips)
East Okoboji Lake (Dickinson)	#____(trips)	#____(trips)
Easter Lake (Polk)	#____(trips)	#____(trips)
Eldred Sherwood Lake (Hancock)	#____(trips)	#____(trips)
Five Island Lake (Palo Alto)	#____(trips)	#____(trips)
Fogle Lake (Ringgold)	#____(trips)	#____(trips)
Lake Geode (Henry)	#____(trips)	#____(trips)
George Wyth Lake (Black Hawk)	#____(trips)	#____(trips)
Green Belt Lake (Black Hawk)	#____(trips)	#____(trips)
Green Castle Lake (Marshall)	#____(trips)	#____(trips)
Green Valley Lake (Union)	#____(trips)	#____(trips)
Greenfield Lake (Adair)	#____(trips)	#____(trips)
Hannen Lake (Benton)	#____(trips)	#____(trips)
Hawthorn Lake (aka Barnes City) (Mahaska)	#____(trips)	#____(trips)
Lake Hendricks (Howard)	#____(trips)	#____(trips)
Hickory Grove Lake (Story)	#____(trips)	#____(trips)
Hooper Area Pond (Warren)	#____(trips)	#____(trips)
Lake Icaria (Adams)	#____(trips)	#____(trips)
Indian Lake (Van Buren)	#____(trips)	#____(trips)
Ingham Lake (Emmet)	#____(trips)	#____(trips)
Lake Iowa (Iowa)	#____(trips)	#____(trips)
Kent Park Lake (Johnson)	#____(trips)	#____(trips)
Lake Keomah (Mahaska)	#____(trips)	#____(trips)
Lacey-Keosauqua Park Lake (VanBuren)	#____(trips)	#____(trips)
Lake of the Hills (Scott)	#____(trips)	#____(trips)
Lake of Three Fires (Taylor)	#____(trips)	#____(trips)
Little River (Decatur)	#____(trips)	#____(trips)
Little Sioux Park Lake (Woodbury)	#____(trips)	#____(trips)
Little Spirit Lake (Dickinson)	#____(trips)	#____(trips)
Little Wall Lake (Hamilton)	#____(trips)	#____(trips)
Littlefield Lake (Audubon)	#____(trips)	#____(trips)

Number of visits (January-December 2009)

Name of lake (County)	Single-day trips	Overnight trips
Lost Island Lake (Palo Alto)	#____(trips)	#____(trips)
Lower Gar Lake (Dickinson)	#____(trips)	#____(trips)
Lower Pine Lake (Hardin)	#____(trips)	#____(trips)
Lake Manawa (Pottawattamie)	#____(trips)	#____(trips)
Manteno Lake (Shelby)	#____(trips)	#____(trips)
Lake McBride (Johnson)	#____(trips)	#____(trips)
Mariposa Lake (Jasper)	#____(trips)	#____(trips)
Meadow Lake (Adair)	#____(trips)	#____(trips)
Lake Meyer (Winneshiek)	#____(trips)	#____(trips)
Meyers Lake (Black Hawk)	#____(trips)	#____(trips)
Lake Miami (Monroe)	#____(trips)	#____(trips)
Mill Creek (Lake) (O'Brien)	#____(trips)	#____(trips)
Lake Minnewashta (Dickinson)	#____(trips)	#____(trips)
Mitchell Lake (Black Hawk)	#____(trips)	#____(trips)
Moorhead Lake (Ida)	#____(trips)	#____(trips)
Mormon Trail Lake (Adair)	#____(trips)	#____(trips)
Nelson Park Lake (Crawford)	#____(trips)	#____(trips)
Nine Eagles Lake (Decatur)	#____(trips)	#____(trips)
North Twin Lake (Calhoun)	#____(trips)	#____(trips)
Oldham Lake (Monona)	#____(trips)	#____(trips)
Lake Orient (Adair)	#____(trips)	#____(trips)
Otter Creek Lake (Tama)	#____(trips)	#____(trips)
Ottumwa Lagoon (Wapello)	#____(trips)	#____(trips)
Lake Pahoja (Lyon)	#____(trips)	#____(trips)
Pierce Creek Lake (Page)	#____(trips)	#____(trips)
Pleasant Creek Lake (Linn)	#____(trips)	#____(trips)
Pollmiller Park Lake (Lee)	#____(trips)	#____(trips)
Prairie Rose Lake (Shelby)	#____(trips)	#____(trips)
Rathbun Lake (Appanoose)	#____(trips)	#____(trips)
Red Haw Lake (Lucas)	#____(trips)	#____(trips)
Red Rock Lake (Marion)	#____(trips)	#____(trips)
Roberts Creek Lake (Marion)	#____(trips)	#____(trips)
Rock Creek Lake (Jasper)	#____(trips)	#____(trips)
Rodgers Park Lake (Benton)	#____(trips)	#____(trips)
Saylorville Lake (Polk)	#____(trips)	#____(trips)
Silver Lake (Delaware)	#____(trips)	#____(trips)
Silver Lake Lake (Dickinson)	#____(trips)	#____(trips)
Silver Lake Lake (Palo Alto)	#____(trips)	#____(trips)
Silver Lake Lake (Worth)	#____(trips)	#____(trips)
Slip Bluff Lake (Decatur)	#____(trips)	#____(trips)
Lake Smith (Kossuth)	#____(trips)	#____(trips)
South Prairie Lake (Black Hawk)	#____(trips)	#____(trips)
Spring Lake (Greene)	#____(trips)	#____(trips)

Number of visits (January-December 2009)

Name of lake (County)	Single-day trips	Overnight trips
Springbrook Lake (Guthrie)	#____(trips)	#____(trips)
Storm Lake including Little Storm Lake (Buena Vista)	#____(trips)	#____(trips)
Lake Sugema (Van Buren)	#____(trips)	#____(trips)
Swan Lake (Carroll)	#____(trips)	#____(trips)
Thayer Lake (Union)	#____(trips)	#____(trips)
Three Mile Lake (Union)	#____(trips)	#____(trips)
Trumbull Lake (Clay)	#____(trips)	#____(trips)
Tuttle Lake (Emmet)	#____(trips)	#____(trips)
Twelve Mile Creek Lake (Union)	#____(trips)	#____(trips)
Union Grove Lake (Tama)	#____(trips)	#____(trips)
Upper Gar Lake (Dickinson)	#____(trips)	#____(trips)
Upper Pine Lake (Hardin)	#____(trips)	#____(trips)
Viking Lake (Montgomery)	#____(trips)	#____(trips)
Volga Lake (Fayette)	#____(trips)	#____(trips)
Lake Wapello (Davis)	#____(trips)	#____(trips)
West Okoboji Lake (Dickinson)	#____(trips)	#____(trips)
West Osceola Lake (Clarke)	#____(trips)	#____(trips)
White Oak Lake (Mahaska)	#____(trips)	#____(trips)
Williamson Pond (Lucas)	#____(trips)	#____(trips)
Willow Lake (Harrison)	#____(trips)	#____(trips)
Wilson Park Lake (Taylor)	#____(trips)	#____(trips)
Windmill Lake (Taylor)	#____(trips)	#____(trips)
Yellow Smoke Park Lake (Crawford)	#____(trips)	#____(trips)
Other Lakes in Iowa	#____(trips)	#____(trips)

2. This year (January-December 2009), what activities did you or members of your household participate in, or do you plan to participate in, during your lake visits?

- | | | |
|-------------------------------------|---|--|
| <input type="checkbox"/> Boating | <input type="checkbox"/> Sailing | <input type="checkbox"/> Swimming and beach use |
| <input type="checkbox"/> Camping | <input type="checkbox"/> Canoeing | <input type="checkbox"/> Hiking/biking |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Picnicking | <input type="checkbox"/> Sight-seeing/tour boats |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Nature appreciation/wildlife viewing | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Jet-skiing | <input type="checkbox"/> Snowmobiling and other winter recreation | |

3. Please indicate how often you or other members of your household visited lakes or rivers in each of the following locations this year.

	Single-day trips	Overnight trips
Lakes in Illinois	#____(trips)	#____(trips)
Lakes in Minnesota	#____(trips)	#____(trips)
Lakes in Missouri	#____(trips)	#____(trips)
Lakes in Nebraska	#____(trips)	#____(trips)
Lakes in South Dakota	#____(trips)	#____(trips)
Lakes in Wisconsin	#____(trips)	#____(trips)
The Missouri River	#____(trips)	#____(trips)
The Mississippi River	#____(trips)	#____(trips)

4. This year (January-December 2009), did you or members of your household visit a river or stream, or do you plan to visit a river or stream, in Iowa (including the border rivers)?

☐ Yes ☐ No

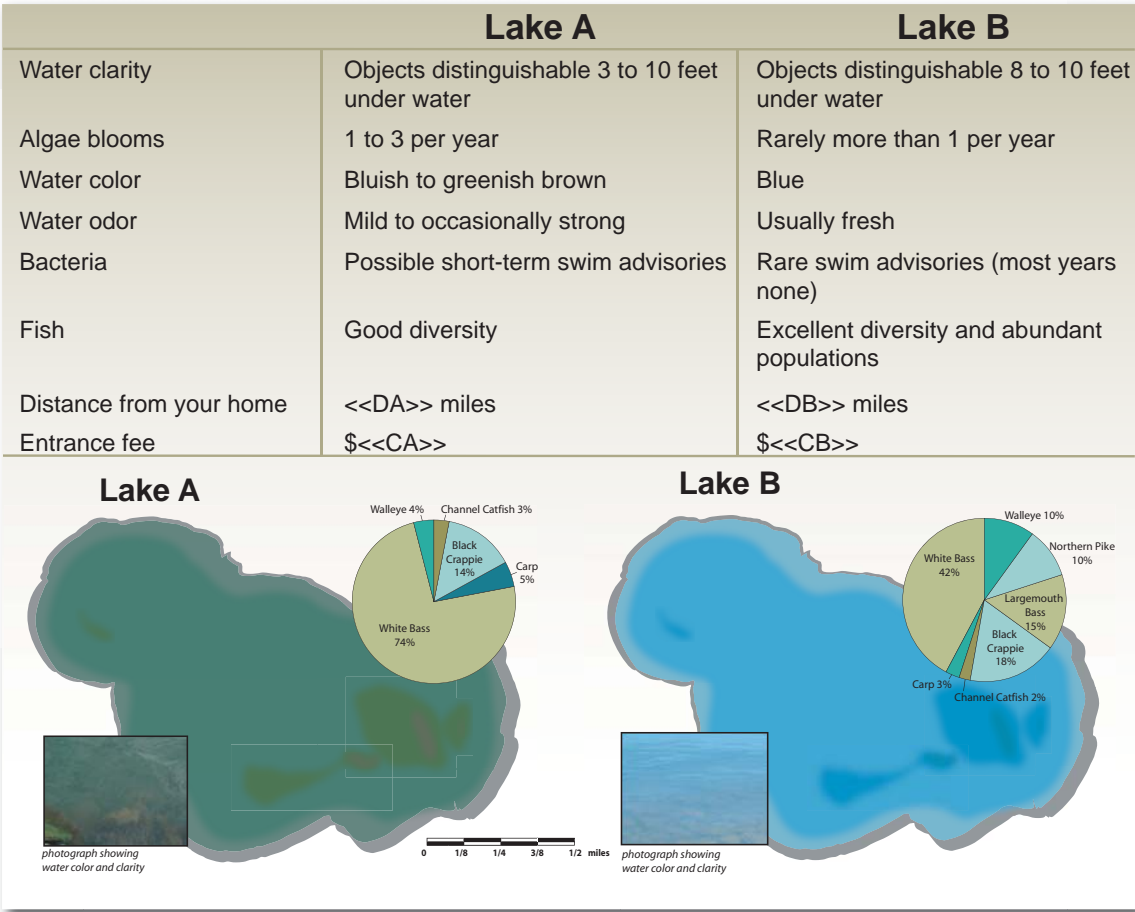
In the following section, we ask you to consider a typical Iowa lake. We describe the lake in one of two possible conditions and ask you to indicate which set of conditions you prefer. Please read this information carefully before answering the questions that follow.

The quality of a lake can be described in many ways. One measure of water quality is the clarity of the lake water. Water clarity is usually described in terms of how far down into the water an object remains visible. For example, a clarity of between 3 and 10 feet means that objects are clearly visible down to a depth of 3 to 10 feet.

Another measure of water quality is the amount of nutrients and other contaminants contained in the water. Water degradation can result from a number of sources, including urban runoff, fertilizer used in agriculture, motor vehicles, and others. Nutrients can result in algae blooms in a lake. Under some circumstances these blooms can be a health concern, causing skin rashes and allergic reactions.

The overall quality of the water can affect other conditions of the lake. Poor water quality can result in undesirable color and odor to the lake water. In addition, the quality of water affects the variety and quantity of fish in the lake.

Consider the following two lakes (Lake A and Lake B). Each lake has the same shape, but the lakes differ in terms of water quality and the distance each lake is from your home. Finally, in some cases, the lakes have an entrance fee.

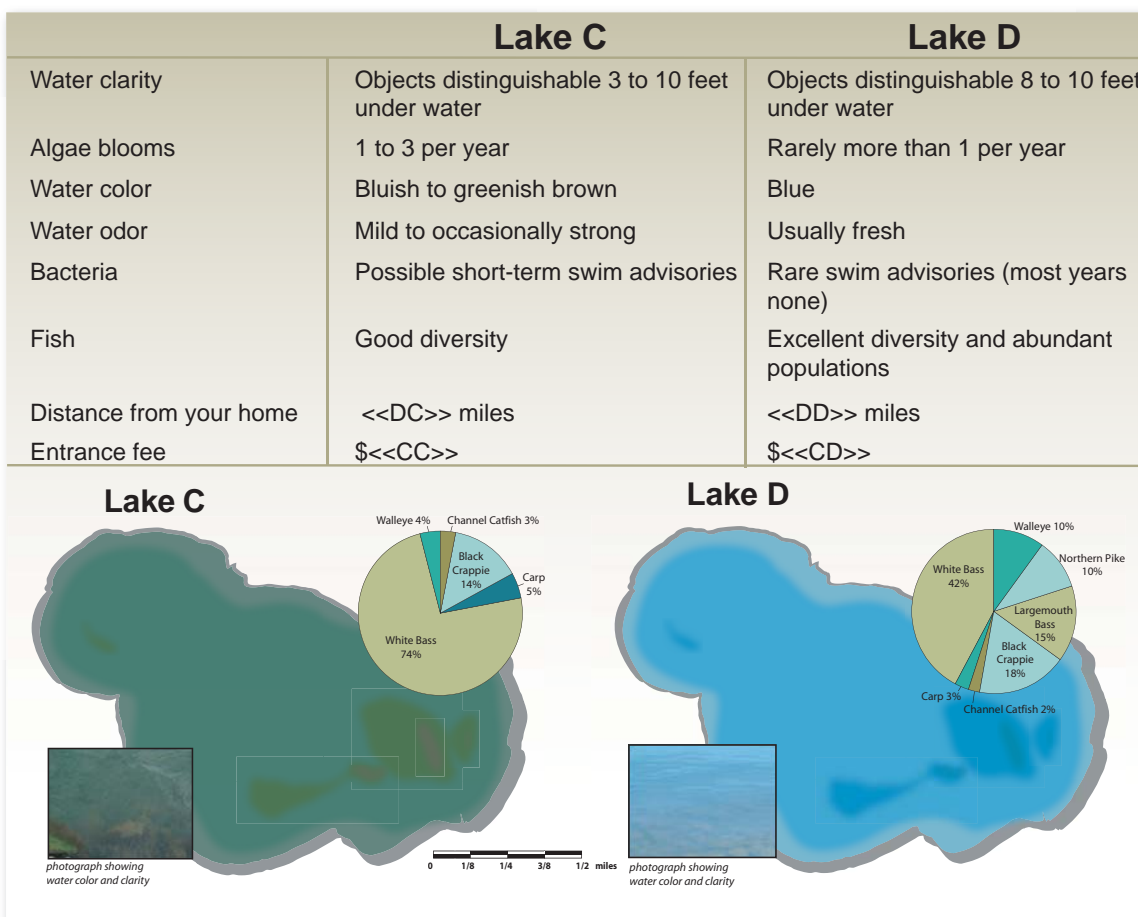


5. Assume that you have to choose between visiting one of the two lakes described on the previous page. What are the chances in percentage terms that you would choose to visit Lake A rather than Lake B? The chance of each alternative should be a number between 0 and 100 and the chances given to the two alternatives should add up to 100. For example, if you give a 5% chance to one alternative it means that there is almost no possibility that you will choose that alternative. On the other hand, if you give an 80% or higher chance to an alternative it means that almost surely you would choose it.

Lake A chance: _____

Lake B chance: + _____
100%

Now we would like you to consider another set of lake possibilities. **THE ONLY DIFFERENCE BETWEEN THE FOLLOWING TWO LAKES AND THE PREVIOUS TWO IS “DISTANCE FROM YOUR HOME” AND “ENTRANCE FEE.”**



6. Assume that you have to choose between visiting one of the two lakes described above. What are the chances in percentage terms that you would choose to visit Lake C rather than Lake D?

Lake C chance: _____

Lake D chance: + _____
100%

Information about you and other members of your household will help us better understand how household characteristics affect an individual's use of Iowa lakes and attitudes toward changes in them. It will also help us to determine how representative our sample is of the state of Iowa. All of your answers are strictly confidential. The information will only be used to report comparisons among groups of people. We will never identify individuals or households with their responses. Please be as complete in your answers as possible. Thank you.

7. What is your age?
☐ Under 18 ☐ 26 – 34 ☐ 50 – 59 ☐ 76 +
☐ 18 – 25 ☐ 35 – 49 ☐ 60 – 75
8. What is your gender?
☐ Male ☐ Female
9. What is the highest level of schooling that you have completed? (Please check only one)
☐ Some high school or less ☐ Some college or trade/vocational school ☐ Advanced degree
☐ High school graduate ☐ College graduate
10. How many adults (including yourself) live in your household? _____
11. How many children live in your household (18 or under)? _____
12. What is your current employment status?
☐ Full time ☐ Part time ☐ Student ☐ Unemployed ☐ Retired
13. If you are currently employed, how many hours per week do you typically work? _____
14. If you are currently employed, do you have the option of working additional hours to increase your total income?
☐ No ☐ Yes—if so, what would your hourly wage be? \$_____ per hour
15. If you answered “no” to question 13, and you could have the option of working more or less hours, which would you prefer?
☐ Work more hours ☐ Work the same number of hours ☐ Work fewer hours

16. What is your total household income (before taxes) for 2009?

- | | | | |
|--|--|--|--|
| <input type="checkbox"/> Under \$10,000 | <input type="checkbox"/> \$25,000 – \$29,999 | <input type="checkbox"/> \$50,000 – \$59,999 | <input type="checkbox"/> \$125,000 – \$149,999 |
| <input type="checkbox"/> \$10,000 – \$14,999 | <input type="checkbox"/> \$30,000 – \$34,999 | <input type="checkbox"/> \$60,000 – \$74,999 | <input type="checkbox"/> Over \$150,000 |
| <input type="checkbox"/> \$15,000 – \$19,999 | <input type="checkbox"/> \$35,000 – \$39,999 | <input type="checkbox"/> \$75,000 – \$99,999 | |
| <input type="checkbox"/> \$20,000 – \$24,999 | <input type="checkbox"/> \$40,000 – \$49,999 | <input type="checkbox"/> \$100,000 – \$124,999 | |

17. Do you own a boat? ☐ Yes ☐ No

Thank you for your participation in this survey. After completion, surveys should be returned to:
Catherine Kling
568 Hedy Hall, Mailstop <<Mailstop>>
Iowa State University
Ames, IA 50011-1070

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