



Center for Agricultural and Rural Development
Resource and Environmental Policy Division

IOWA STATE UNIVERSITY
DEPARTMENT OF ECONOMICS

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 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 in the enclosed map you visited in 2004 and how your lake visits might change in the future with changes in lake water quality.

- Please indicate in the first column how often in 2004 you or other members of your household visited each of the lakes listed on the following pages for a single day trip. In this questionnaire, we will be asking you detailed information only about your single day trips (and not overnight trips). If you did not visit any lake in Iowa in 2004, please check this box.

I did not visit any lakes in Iowa in 2004.

If you took overnight trips to Iowa lakes in 2004 please check this box

I took one or more overnight trips to lakes in Iowa in 2004.

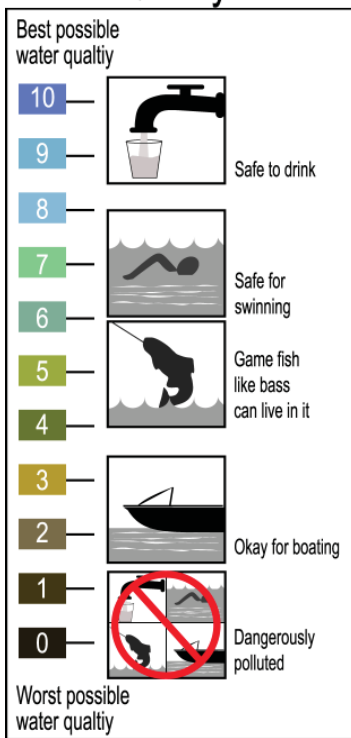
- Please indicate in the second column how many single day trips you plan to make to each of the lakes in 2005. If you do not plan to visit any lakes in Iowa in 2005, please check this box.

I do not plan to visit any lakes in Iowa in 2005.

- There are currently efforts underway to improve the water quality of Iowa's lakes. We are interested in knowing how these changes might impact your single day trips to lakes. One way of thinking about water quality is to use a ladder like the one shown below. The top of the water quality ladder stands for the best possible quality of water, and the bottom of the ladder stands for the worst. On the ladder you can see the different levels of water quality.

For example: The lowest level is so polluted that it has oil, raw sewage, and/or other things in it like trash; it has almost no plant or animal life, smells bad, and contact with it is dangerous to human health. Water quality that is "boatable" would not harm you if you happened to fall into it for a short time while boating or sailing. Water quality that is "fishable" is a higher level of quality than "boatable." Although some kinds of fish can live in boatable water, it is only when water is "fishable" that game fish like bass can live in it. Finally, "swimmable" water is of a high enough quality that it is safe to swim in and ingest in small amounts.

Water Quality Ladder

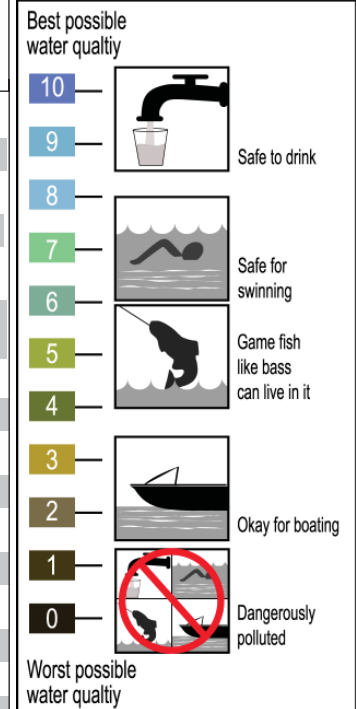


For each of the lakes below, we have indicated the current water quality conditions in terms of the water quality ladder. For example, Arbor Lake in Powershiek County is currently rated as a 6 on the water quality ladder. This is above the minimum for fishable, but below the swimmable level. Badger Creek Lake in Madison county, on the other hand, has a current water quality level of 4, which is okay for boating, but not fishable. In the last column of the table, we would like you to indicate how many single day trips you would make to each of the lakes given all of the lakes were improved to at least swimmable (7). Notice that many lakes are already at or above the swimmable level. Please keep in mind that you may choose to take fewer trips to some lakes, while taking more trips to others. If you would not plan to take any trips to Iowa lakes, even given the water quality improvements, please check the following box:

I would not plan to visit any lakes in Iowa in 2005 even if the water quality improved as indicated.

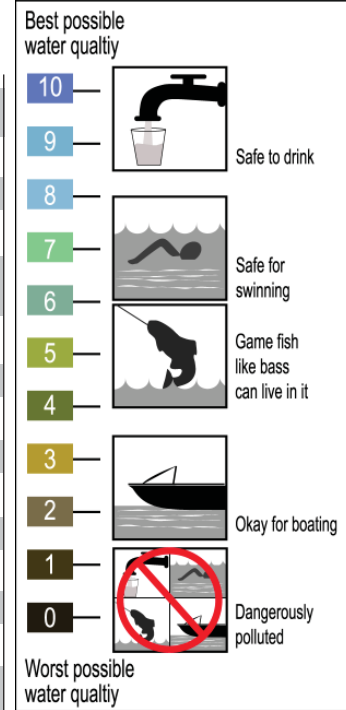
Name of Lake (County)	Number of Visits		Water Quality		Anticipated Single Day Trips with the higher Proposed Water Quality
	Actual 2004	Anticipated 2005	Current	Proposed	
	Lake Ahquabi (Warren)	# ___ (trips)	# ___ (trips)	7	
Lake Anita (Cass)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Arbor Lake (Poweshiek)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Arrowhead Lake (Pottawattamie)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Arrowhead Pond (Sac)	# ___ (trips)	# ___ (trips)	9	9	# ___ (trips)
Avenue of the Saints Lake (Bremer)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Badger Creek Lake (Madison)	# ___ (trips)	# ___ (trips)	4	7	# ___ (trips)
Badger Lake (Webster)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Beaver Lake (Dallas)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Beed's Lake (Franklin)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Big Creek Lake (Polk)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Big Spirit Lake (Dickinson)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Black Hawk Lake (Sac)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Blue Lake (Monona)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Bob White Lake (Wayne)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Briggs Woods Lake (Hamilton)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Brown's Lake (Woodbury)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Brushy Creek Lake (Webster)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Carter Lake (Pottawattamie)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Casey Lake (aka Hickory Hills) (Tama)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Center Lake (Dickinson)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Central Park Lake (Jones)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Clear Lake (Cerro Gordo)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Cold Springs Lake (Cass)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Coralville Lake (Johnson)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Lake Cornelia (Wright)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Crawford Creek Impoundment (Ida)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Crystal Lake (Hancock)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Dale Maffitt Lake (Madison)	# ___ (trips)	# ___ (trips)	9	9	# ___ (trips)
Lake Darling (Washington)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
DeSoto Bend Lake (Harrison)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Diamond Lake (Poweshiek)	# ___ (trips)	# ___ (trips)	4	7	# ___ (trips)
Dog Creek (Lake) (O'Brien)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Don Williams Lake (Boone)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
East Lake (Osceola) (Clarke)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
East Okoboji Lake (Dickinson)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Easter Lake (Polk)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Eldred Sherwood Lake (Hancock)	# ___ (trips)	# ___ (trips)	6	7	# ___ (trips)
Five Island Lake (Palo Alto)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
Fogle Lake (Ringgold)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Lake Geode (Henry)	# ___ (trips)	# ___ (trips)	7	7	# ___ (trips)
George Wyth Lake (Black Hawk)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Green Belt Lake (Black Hawk)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)

Water Quality Ladder



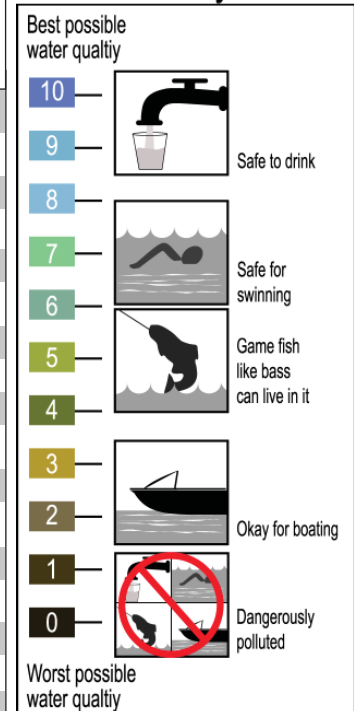
Name of Lake (County)	Number of Visits		Water Quality		Anticipated Single Day Trips with the higher Proposed Water Quality
	Actual 2004	Anticipated 2005	Current	Proposed	
	Green Castle Lake (Marshall)	#___(trips)	#___(trips)	7	
Green Valley Lake (Union)	#___(trips)	#___(trips)	8	8	#___(trips)
Greenfield Lake (Adair)	#___(trips)	#___(trips)	8	8	#___(trips)
Hannen Lake (Benton)	#___(trips)	#___(trips)	8	8	#___(trips)
Hawthorn Lake (aka Barnes City) (Mahaska)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Hendricks (Howard)	#___(trips)	#___(trips)	5	7	#___(trips)
Hickory Grove Lake (Story)	#___(trips)	#___(trips)	7	7	#___(trips)
Hooper Area Pond (Warren)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Icaria (Adams)	#___(trips)	#___(trips)	7	7	#___(trips)
Indian Lake (Van Buren)	#___(trips)	#___(trips)	7	7	#___(trips)
Ingham Lake (Emmet)	#___(trips)	#___(trips)	6	7	#___(trips)
Lake Iowa (Iowa)	#___(trips)	#___(trips)	8	8	#___(trips)
Kent Park Lake (Johnson)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Keomah (Mahaska)	#___(trips)	#___(trips)	5	7	#___(trips)
Lacey Keosauqua Park Lake (VanBuren)	#___(trips)	#___(trips)	9	9	#___(trips)
Lake of the Hills (Scott)	#___(trips)	#___(trips)	7	7	#___(trips)
Lake of Three Fires (Taylor)	#___(trips)	#___(trips)	3	7	#___(trips)
Little River (Decatur)	#___(trips)	#___(trips)	8	8	#___(trips)
Little Sioux Park Lake (Woodbury)	#___(trips)	#___(trips)	8	8	#___(trips)
Little Spirit Lake (Dickinson)	#___(trips)	#___(trips)	6	7	#___(trips)
Little Wall Lake (Hamilton)	#___(trips)	#___(trips)	4	7	#___(trips)
Littlefield Lake (Audubon)	#___(trips)	#___(trips)	5	7	#___(trips)
Lost Island Lake (Palo Alto)	#___(trips)	#___(trips)	7	7	#___(trips)
Lower Gar Lake (Dickinson)	#___(trips)	#___(trips)	5	7	#___(trips)
Lower Pine Lake (Hardin)	#___(trips)	#___(trips)	5	7	#___(trips)
Lake Manawa (Pottawattamie)	#___(trips)	#___(trips)	6	7	#___(trips)
Manteno Lake (Shelby)	#___(trips)	#___(trips)	7	7	#___(trips)
Lake Macbride (Johnson)	#___(trips)	#___(trips)	8	8	#___(trips)
Mariposa Lake (Jasper)	#___(trips)	#___(trips)	5	7	#___(trips)
Meadow Lake (Adair)	#___(trips)	#___(trips)	7	7	#___(trips)
Lake Meyer (Winneshiek)	#___(trips)	#___(trips)	7	7	#___(trips)
Meyers Lake (Black Hawk)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Miami (Monroe)	#___(trips)	#___(trips)	7	7	#___(trips)
Mill Creek (Lake) (O'Brien)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Minnewashta (Dickinson)	#___(trips)	#___(trips)	7	7	#___(trips)
Mitchell Lake (Black Hawk)	#___(trips)	#___(trips)	7	7	#___(trips)
Moorhead Lake (Ida)	#___(trips)	#___(trips)	8	8	#___(trips)
Mormon Trail Lake (Adair)	#___(trips)	#___(trips)	8	8	#___(trips)
Nelson Park Lake (Crawford)	#___(trips)	#___(trips)	8	8	#___(trips)
Nine Eagles Lake (Decatur)	#___(trips)	#___(trips)	8	8	#___(trips)
North Twin Lake (Calhoun)	#___(trips)	#___(trips)	7	7	#___(trips)
Oldham Lake (Monona)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Orient (Adair)	#___(trips)	#___(trips)	5	7	#___(trips)

Water Quality Ladder



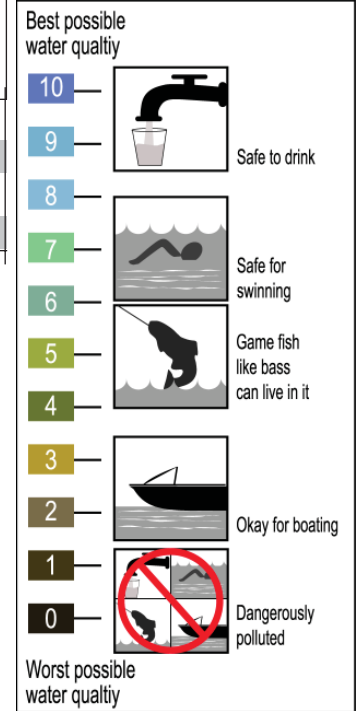
Name of Lake (County)	Number of Visits		Water Quality		Anticipated Single Day Trips with the higher Proposed Water Quality
	Actual 2004	Anticipated 2005	Current	Proposed	
	Otter Creek Lake (Tama)	#___(trips)	#___(trips)	7	
Ottumwa Lagoon (Wapello)	#___(trips)	#___(trips)	5	7	#___(trips)
Lake Pahoja (Lyon)	#___(trips)	#___(trips)	6	7	#___(trips)
Pierce Creek Lake (Page)	#___(trips)	#___(trips)	5	7	#___(trips)
Pleasant Creek Lake (Linn)	#___(trips)	#___(trips)	8	8	#___(trips)
Pollmiller Park Lake (Lee)	#___(trips)	#___(trips)	8	8	#___(trips)
Prairie Rose Lake (Shelby)	#___(trips)	#___(trips)	7	7	#___(trips)
Rathbun Lake (Appanoose)	#___(trips)	#___(trips)	7	7	#___(trips)
Red Haw Lake (Lucas)	#___(trips)	#___(trips)	9	9	#___(trips)
Red Rock Lake (Marion)	#___(trips)	#___(trips)	6	7	#___(trips)
Roberts Creek Lake (Marion)	#___(trips)	#___(trips)	7	7	#___(trips)
Rock Creek Lake (Jasper)	#___(trips)	#___(trips)	7	7	#___(trips)
Rodgers Park Lake (Benton)	#___(trips)	#___(trips)	6	7	#___(trips)
Saylorville Lake (Polk)	#___(trips)	#___(trips)	6	7	#___(trips)
Silver Lake (Delaware)	#___(trips)	#___(trips)	4	7	#___(trips)
Silver Lake (Dickinson)	#___(trips)	#___(trips)	6	7	#___(trips)
Silver Lake (Palo Alto)	#___(trips)	#___(trips)	6	7	#___(trips)
Silver Lake (Worth)	#___(trips)	#___(trips)	4	7	#___(trips)
Slip Bluff Lake (Decatur)	#___(trips)	#___(trips)	8	8	#___(trips)
Lake Smith (Kossuth)	#___(trips)	#___(trips)	8	8	#___(trips)
South Prairie Lake (Black Hawk)	#___(trips)	#___(trips)	7	7	#___(trips)
Spring Lake (Greene)	#___(trips)	#___(trips)	5	7	#___(trips)
Springbrook Lake (Guthrie)	#___(trips)	#___(trips)	5	7	#___(trips)
Storm Lake including Little Storm Lake (Buena Vista)	#___(trips)	#___(trips)	5	7	#___(trips)
Lake Sugema (Van Buren)	#___(trips)	#___(trips)	8	8	#___(trips)
Swan Lake (Carroll)	#___(trips)	#___(trips)	5	7	#___(trips)
Thayer Lake (Union)	#___(trips)	#___(trips)	5	7	#___(trips)
Three Mile Lake (Union)	#___(trips)	#___(trips)	8	8	#___(trips)
Trumbull Lake (Clay)	#___(trips)	#___(trips)	5	7	#___(trips)
Tuttle Lake (Emmet)	#___(trips)	#___(trips)	5	7	#___(trips)
Twelve Mile Creek Lake (Union)	#___(trips)	#___(trips)	8	8	#___(trips)
Union Grove Lake (Tama)	#___(trips)	#___(trips)	6	7	#___(trips)
Upper Gar Lake (Dickinson)	#___(trips)	#___(trips)	7	7	#___(trips)
Upper Pine Lake (Hardin)	#___(trips)	#___(trips)	6	7	#___(trips)
Viking Lake (Montgomery)	#___(trips)	#___(trips)	7	7	#___(trips)
Volga Lake (Fayette)	#___(trips)	#___(trips)	6	7	#___(trips)
Lake Wapello (Davis)	#___(trips)	#___(trips)	8	8	#___(trips)
West Okoboji Lake (Dickinson)	#___(trips)	#___(trips)	8	8	#___(trips)
West Osceola Lake (Clarke)	#___(trips)	#___(trips)	8	8	#___(trips)
White Oak Lake (Mahaska)	#___(trips)	#___(trips)	8	8	#___(trips)
Williamson Pond (Lucas)	#___(trips)	#___(trips)	6	7	#___(trips)
Willow Lake (Harrison)	#___(trips)	#___(trips)	8	8	#___(trips)

Water Quality Ladder



Name of Lake (County)	Number of Visits		Water Quality		Anticipated Single Day Trips with the higher Proposed Water Quality
	Actual 2004	Anticipated 2005	Current	Proposed	
	Wilson Park Lake (Taylor)	# ___ (trips)	# ___ (trips)	8	
Windmill Lake (Taylor)	# ___ (trips)	# ___ (trips)	5	7	# ___ (trips)
Yellow Smoke Park Lake (Crawford)	# ___ (trips)	# ___ (trips)	8	8	# ___ (trips)
Other Lakes in Iowa _____	# ___ (trips)	# ___ (trips)	No Change		# ___ (trips)

Water Quality Ladder



4. Of the trips you've reported on the preceding pages what percentage of these were
- a) alone or only with members of your immediate household _____%
 - b) with friends or members of another household _____%
 - c) trips members of your household took but you did not + _____%
- 100 %

Information on 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 towards 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.

5. What is your age?
- Under 18 26-34 50-59 76+
- 18-25 35-49 60-75
6. You are Male Female
7. 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

8. How many children live in your household (18 or under)? _____
9. How many adults (including yourself) live in your household? _____
10. What is your total household income before taxes for 2004?
- | | | | |
|--|--|--|--|
| <input type="checkbox"/> Under \$10,000 | <input type="checkbox"/> \$25,000-\$29,999 | <input type="checkbox"/> \$50,000-\$59,000 | <input type="checkbox"/> \$125,000-\$149,000 |
| <input type="checkbox"/> \$10,000-\$14,900 | <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-\$19,900 | <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-\$124,000 | | |
11. How many of the adults you reported in question 9 contribute to your reported household income? _____

Information on employment helps us better understand how time spent working affects an individual's or household's use of Iowa lakes since time spent at a recreational spot is time that cannot be spent at work. Again, 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.

12. What is your current employment status?
- Full time part time self-employed student unemployed retired
13. If you are currently employed, how many weeks per year do you work? _____
- 13a. Of these weeks, how many are paid vacation? _____
14. If you are currently employed, how many hours per week do you typically work? _____
15. If you are currently employed, are the number of hours you work per week scheduled for you (for example, your employer requires a 40 hour work week, or schedules hours in advance), or are you free to choose when and how long you work?
- Fixed/scheduled hours Free to choose

16. If you had the opportunity to work fewer hours and receive less income, or work more hours and receive more income, would you change your weekly work hours, and if so by how much?

No, I would not change my weekly work hours

Yes, I would change to working fewer hours and receive less income

16a. How many less hours would you work per week, if you could work as many hours as you wanted? _____

Yes, I would change to working more hours and receive more income

16b. How many more hours would you work per week, if you could work as many hours as you wanted? _____

17. If you are currently employed, are you paid an hourly wage, or do you receive a salary?

I am paid an hourly wage

Wage per hour is approximately:

Under \$5.00 \$11.00-\$12.99 \$19.00-\$20.99 \$27.00-\$28.99

\$5.00-\$6.99 \$13.00-\$14.99 \$21.00-\$22.99 over \$29.00

\$7.00-\$8.99 \$15.00-\$16.99 \$23.00-\$24.99

\$9.00-\$10.99 \$17.00-\$18.99 \$25.00-\$26.99

I am paid a salary

Yearly salary is approximately:

Under \$10,000 \$25,000-\$29,999 \$50,000-\$59,000 \$125,000-\$149,000

\$10,000-\$14,900 \$30,000-\$34,999 \$60,000-\$74,999 over \$150,000

\$15,000-\$19,900 \$35,000-\$39,999 \$75,000-\$99,999

\$20,000-\$24,999 \$40,000-\$49,999 \$100,000-\$124,000

If there is a second adult in your household, please answer the same set of questions for that person.

18. What is the other adult's current employment status?

Full time part time self-employed student

unemployed retired

19. If the other adult is currently employed, how many weeks per year does he/she work? _____

19a. Of these weeks, how many are paid vacation? _____

20. If the other adult is currently employed, how many hours per week does he/she typically work? _____
21. If the other adult is currently employed, are the number of hours he or she works per week scheduled for him or her (for example, his or her employer requires a 40 hour work week, or schedules hours in advance), or is he or she free to choose when and how long he or she works?
 Fixed/scheduled hours Free to choose
22. If the other adult had the opportunity to work fewer hours and receive less income, or work more hours and receive more income, would he/she change his/her weekly work hours, and if so by how much?
 No, the other adult would not change his/her weekly work hours

 Yes, the other adult would change to working fewer hours and receive less income
 21a. How many less hours would the other adult work per week, if he/she could work as many hours as he/she wanted? _____

 Yes, the other adult would change to working more hours and receive more income
 21b. How many more hours would he/she work per week, if he/she could work as many hours as he/she wanted? _____
23. If the other adult is currently employed, is he/she paid an hourly wage, or does he/she receive a salary?
 The other adult is paid an hourly wage
 Wage per hour is approximately:
 Under \$5.00 \$11.00-\$12.99 \$19.00-\$20.99 \$27.00-\$28.99
 \$5.00-\$6.99 \$13.00-\$14.99 \$21.00-\$22.99 over \$29.00
 \$7.00-\$8.99 \$15.00-\$16.99 \$23.00-\$24.99
 \$9.00-\$10.99 \$17.00-\$18.99 \$25.00-\$26.99
- The other adult is paid a salary**
 Yearly salary is approximately:
 Under \$10,000 \$25,000-\$29,999 \$50,000-\$59,000 \$125,000-\$149,000
 \$10,000-\$14,900 \$30,000-\$34,999 \$60,000-\$74,999 over \$150,000
 \$15,000-\$19,900 \$35,000-\$39,999 \$75,000-\$99,999
 \$20,000-\$24,999 \$40,000-\$49,999 \$100,000-\$124,000

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

Iowa State University
Department of Economics
568 Heady Hall
Ames, IA 50011-1070