

# **Recommended Study Design for a Survey to Evaluate the Effectiveness of Mississippi Delta Fish Advisories**

**Final Report**

**June 29, 2007**

Prepared for

**The Office of Water, Office of Science and Technology  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460**

# **Appendix B: Summary of Literature Review**

**Table B-1. Summary of Literature Review**

Article	Target Population	Data Collection Mode	Number of Respondents	Response Rate	Information Collected					
					Fishing Practices	Fish Consumption Practices	Advisory Awareness	Postadvisory Behavior	Pretest of Advisory Materials	Other
Anderson, H.A., L.P. Hanrahan, A. Smith, L. Draheim, M. Kanarek, and J. Olsen. 2004. "The Role of Sport-Fish Consumption Advisories in Mercury Risk Communication: A 1998–1999 12-State Survey of Women Age 18–45." <i>Environmental Research</i> 95(3):315-324.	Women of childbearing age (18-45)	Telephone	3,015	50%		x	x			x
Anderson, H.A. and L. Knobeloch. 2004. "Different Methods to Evaluate State Mercury Fish Consumption Advisories." Presented at 2004 EPA National Forum on Contaminants in Fish.	Women who gave birth	Mail survey	740	74%		x	x	x		
Beehler, G.P., J.M. Weiner, S.E. McCann, J.E. Vena, and D.E. Sandberg. 2002. "Identification of Sport Fish Consumption Patterns in Families of Recreational Anglers through Factor Analysis." <i>Environmental Research</i> 89(1):19-28.	Anglers in upstate New York	Mail survey	11,431	40%		x	x			x
Boischio, A.A.P., and D. Henshel. 2000. "Fish Consumption, Fish Lore, and Mercury Pollution—Risk Communication for the Madeira River People." <i>Environmental Research</i> 84(2):108-126.	Households located along Upper Madeira River in the Amazon	In person	276	NA		x				

(continued)

Table B-1. Summary of Literature Review (continued)

Article	Target Population	Data Collection Mode	Number of Respondents	Response Rate	Information Collected					
					Fishing Practices	Fish Consumption Practices	Advisory Awareness	Postadvisory Behavior	Pretest of Advisory Materials	Other
Brown, R.B. and J.F. Toth, Jr. 2001. "Natural Resource Access and Interracial Associations: Black and White Subsistence Fishing in the Mississippi Delta." <i>Southern Rural Sociology</i> 17:81-110.	Anglers and bait shop owners	In person	61	NA	x	x				
Brown, R.B., X. Xu, and J.F. Toth, Jr. 1998. "Lifestyle Options and Economic Strategies: Subsistence Activities in the Mississippi Delta." <i>Rural Sociology</i> 63(4):599-623.	Households	In person	334	88%	x					x
Burger, J. 2005. "Fishing, Fish Consumption, and Knowledge about Advisories in College Students and Others in Central New Jersey." <i>Environmental Research</i> 98(2):268-275.	College students, university employees, and grocery shoppers	In person	180	NA	x	x	x			
Burger, J. and M. Gochfeld. 2005. "Risk Communication: Lessons Learned on Message Development and Dissemination." Presented at 2005 EPA National Forum on Contaminants in Fish.	Summary of various studies, including general public and anglers	NA	NA	NA	x	x	x			
Burger, J., J. Sanchez, and M. Gochfeld. 1998. "Fishing, Consumption, and Risk Perception in Fisherfolk along an East Coast Estuary." <i>Environmental Research</i> 77(1):25-35.	People crabbing or fishing on Barnegat Bay and Great Bay, New Jersey	In person	515	NA	x	x	x			

(continued)

Table B-1. Summary of Literature Review (continued)

Article	Target Population	Data Collection Mode	Number of Respondents	Response Rate	Information Collected					
					Fishing Practices	Fish Consumption Practices	Advisory Awareness	Postadvisory Behavior	Pretest of Advisory Materials	Other
Burger, J. and L. Waishwell. 2001. "Are We Reaching the Target Audience? Evaluation of a Fish Fact Sheet." <i>The Science of the Total Environment</i> 277:77-86.	Anglers	In person	92	99%						x
Campbell, K.R., R.J. Dickey, R. Sexton, and J. Burger. 2002. "Fishing along the Clinch River Arm of Watts Bar Reservoir Adjacent to the Oak Ridge Reservation, TN: Behavior, Knowledge and Risk Perception." <i>The Science of the Total Environment</i> 299:145-161.	Anglers	In person	202	90%	x	x	x			
Chary, L.K. and B. J. Neuberger. 2004. "Fish Smart! Eat Safe! Risk Communication to Diverse Populations in an Urban Setting." Presented at 2004 EPA National Forum on Contaminants in Fish.	Urban, ethnic fishers	In person	57 (2002) 160 (2003)	NA			x			x
Frohmborg, E. 2005. "Maine's Mom Survey: Evaluation of Risk Communication Efforts." Presented at 2005 EPA National Forum on Contaminants in Fish.	Pregnant women	Mail survey	768	60%		x	x	x		

(continued)

Table B-1. Summary of Literature Review (continued)

Article	Target Population	Data Collection Mode	Number of Respondents	Response Rate	Information Collected					
					Fishing Practices	Fish Consumption Practices	Advisory Awareness	Postadvisory Behavior	Pretest of Advisory Materials	Other
Gibson, J.C., J.A. McClafferty, and K.S. Hockett. 2005. "Fish Consumption Patterns and Advisory Awareness Among Baltimore Harbor Anglers." Presented at 2005 EPA National Forum on Contaminants in Fish.	Boat, pier, and shore anglers	In person	135	NA	x	x	x			
Pflugh, K.K., L. Lurig, L.A. Von Hagen, S. Von Hagen, and J. Burger. 1999. "Urban Anglers' Perception of Risk from Contaminated Fish." <i>The Science of the Total Environment</i> 228:203-218.	Urban anglers	In person	300	74%	x		x			

NA = Not available

# **Appendix C: Materials Used in Cognitive Interviews**

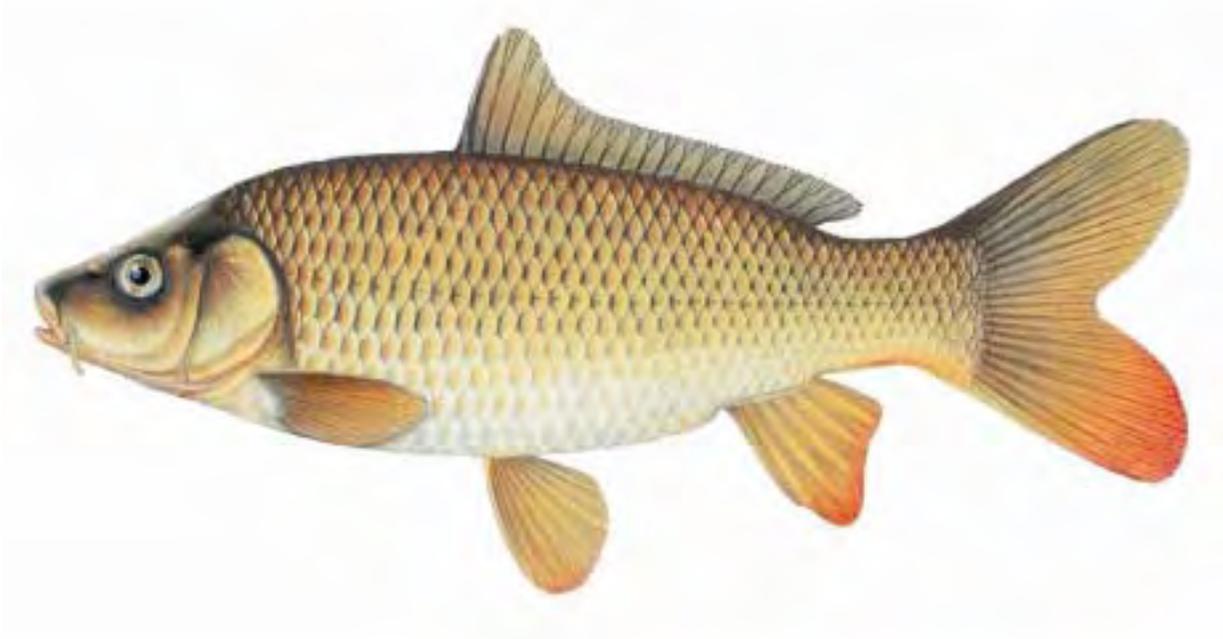
**Effectiveness of Mississippi Delta Fish  
Advisories: Materials for Cognitive Interviews**

**May 30, 2007**

**Gar**



**Carp**



**Large Catfish  
Greater than 22 inches**



**Buffalo Fish**



### **Question 43**

1. Radio
2. Television
3. Newspaper
4. Magazine
5. Post signs at lakes, rivers, and other water sources
6. Mail information to home
7. Internet or Web site
8. Wildlife and fish expos
9. Health fairs
10. Post information and provide brochures at bait shops
11. Post information and provide brochures at fish markets
12. Post information and provide brochures at Women, Infant, and Children (WIC) clinics
13. Post information and provide brochures at doctors' offices, hospitals, and clinics
14. Provide information through local churches
15. Go door to door to provide information
16. Other way, specify

**Question 65A**

1. Farming
2. Agricultural services
3. Mining
4. Construction
5. Manufacturing, for example, catfish processing
6. Transportation or public utilities
7. Wholesale trade
8. Retail trade
9. Services
10. Government
11. Other, specify

**Question 68**

1. less than \$9,999
2. \$10,000–19,999
3. \$20,000–29,999
4. \$30,000–39,999
5. \$40,000–49,999
6. \$50,000 or more

