

Table 1 *Description of Studies Conducted in the United States*

State	Study site	Date	Population studied	Citation	Study sample size	Response rate (%)	Survey mode	
Alaska	Alexander Creek	1989	All users	Whittaker (1989a)	45	80	On-site	
	Brooks River	1993	September visitors	Whittaker (1997)	80		On-site	
	Deshka River	1989	All Users	Whittaker (1989b)	258	73	On-site	
	Eagle River	1996	Rafters	Whittaker (1996a)	80	90	On-site	
	Goodnews River		1996	All Users	Whittaker (1996b)	82	87	Mailed
			2001	All Users	Whittaker (2001a)	231		Mailed
	Gulkana River	1999	All Users	Whittaker, Vaske, & Williams (2000)	305	58	Mailed	
	Kanektok River		1996	All Users	Whittaker (1996c)	105	79	Mailed
			2001	All Users	Whittaker (2001b)	151		Mailed
	Kenai Fjords National Park	2001	Visitors to Exit Glacier	Manning (2001a)	359	77	On-site	
	Kenai River		1993	Salmon Anglers	Alaska Div. of Parks & Rec (1993)	1,530	95	On-site
				Recreationists				
				Driftboat Anglers				
				Power Boaters				
	Lake Creek	1989	All Users	Whittaker (1989c)	64	80	On-site	
	Little Susitna River	1989	All Users	Whittaker (1989d)	203	89	On-site	
	McNeil River		1998	Standby Permittees	Bright (1999)	415	57	Mailed
Successful Permittees								
Mt McKinley - Denali National Park		1977	Mountain Climbers	Shelby & Yuskavitch (1977)	33	66	On-site	
		1978	Hikers	Womble (1981)	2,829	79	Mailed	

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	Nanticote River	1996	Boaters		100		
	Talachulitna River	1989	All Users	Whittaker (1989e)	104	71	On-site
	Talkeetna River	1989	All Users	Whittaker (1989f)	54	77	On-site
	Togiak River	1996	All Users	Whittaker (1996d)	39	58	Mailed
		2001	All Users	Whittaker (2001c)	50		Mailed
	Willow Creek	1991	Salmon Anglers	Alaska Div. of Parks & Rec. (1991)	96	85	On-site
Arizona	Colorado River - Glen Canyon Nat'l Rec. Area	1984	Anglers	HBRS (1985)	211	83	On-site
	Colorado River - Grand Canyon Nat'l Park	1998	Commercial Oar Boaters	Hall & Shelby (2000)	1,021	83	On-site
			Commercial Motor Boaters				
			Private Boaters				
	Grand Canyon National Park	1985	Rafters	HBRS (1986)	538	91	On-site
	Phoenix North Public Lands	2002	Visitors	Andereck et al. (2002)	234	35	On-site
California	Alcatraz Island	1998	Visitors	Manning et al. (2002)	865	80	On-site
		2005	Visitors	Manning (2005)	288	81	On-site
	Joshua Tree National Park	1994	Rock Climbers	Trench & Wallace (1994)	675	95	On-site
	Klamath River	1984	Salmon Anglers	Shelby & Stein (1984)	50	43	On-site
		1984	Floaters	Shelby & Stein (1984)	105	90	On-site
	Lake Shasta	2002	Boaters	Graefe, Absher, Ye, & Nyaupane (2005)	546		On-site
		2002	Houseboats	Graefe et al. (2005)	769	62	Mailed
			Rental boats				
			Marina-based boats				

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	Lake Sonoma	2000	Recreational Boaters Fishing - Boaters	Carroll (2001)	157	89	On-site
	Lake Trinity	2002	Boaters	Graefe et al. (2005)	239		On-site
		2002	Rental boats Marina-based boats Houseboats	Graefe et al. (2005)	383	62	Mailed
	Mt Shasta	1994	Mountain Climbers	Vaske, Donnelly, & Puttkammer (1994)	310	50	On-site
	Muir Beach	2003	Visitors	Manning (2003a)	404	61	
	Muir Woods National Monument	2003	Visitors	Manning (2003b)	404	55	
		2004	Visitors	Manning (2004a)	173	60	
	Yosemite National Park	1998	Visitors	Manning (1998)	810		On-site
		1999	Visitors	Manning (1999)	942		On-site
		2001	Frontcountry Users Wilderness Remote Users Wilderness Transition Users	Newman (2002)	712	78	On-site
Colorado	Cache la Poudre River	1993	Anglers	Vaske (1993)	89	95	On-site
		1993	Kayakers Rafters	Vaske & Donnelly (1993a)	1,065	97	On-site
	Colorado Reservoirs	1998	Anglers	Donnelly & Vaske (1998)	312	94	On-site
	Gunnison Gorge Nat'l Conserv. Area	2002	Wilderness Users OHV area Users Non-wilderness Users	Knopf, Andereck, Virden, & Fletcher (2002)	196	48	On-site

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	Jefferson County	1996	Hikers	Carothers, Vaske, & Donnelly (2001)	775	95	On-site
			Bikers				
			Dual-Sport				
	Mesa Verde National Park	2001	Visitors	Manning (2001b)	1,308		On-site
	Mt Evans	1994	Deer Hunter	Vaske, Donnelly, Wittman, & Laidlaw (1995)	986	96	On-site
			Tourists				
	Rocky Mountain National Park	2001	Tourists	Vaske, Donnelly, & Lehto (2002)	1,643	95	On-site
			Hikers				
	Upper Colorado River	2000	Boaters	Titre & Schuster (2002)	201		On-site
	Vail Pass - White River National Forest	2003	Nonmotorized Users	Vaske (2003a)	224	96	On-site
			Motorized Users				
	Wolf Creek Pass – San Juan/Rio Grande Nat'l Forest	2003	Nonmotorized Users	Vaske (2003b)	243	96	On-site
			Motorized Users				
Delaware	Delaware Coastal Beaches	1993	Beach Users	Graefe (1993)	562		On-site
	Delaware Inland Bay	1991	Boaters	Falk et al. (1992)	635		On-site
Hawaii	Haleakala National Park	2003	Visitors	Manning (2003c)	204	63	On-site
		2003	Bicycle tourists	Manning (2003c)	201		On-site
		2003	Visitors - as exiting park	Manning (2003c)	300	63	On-site
		2004	Visitors	Manning (2004b)	288		On-site
	Hawaii Volcanoes National Park	2002	Visitors	Manning (2002a)	469	58	On-site

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Maine	Acadia Carriage Roads	1995	Carriage Road users	Manning et al. (1997)	514	70	On-site
		1996	Carriage Road users	Manning et al. (1997)	377	70	Mailed
	Acadia National Park - Isle au Haut	2001	Visitors	Manning (2001c)	228	91	On-site
		2002	Visitors	Manning (2002b)	341	87	On-site
		2003	Residents	Manning (2003d)	79	64	Mailed
	Acadia National Park - Schoodic Peninsula	2000	Visitors	Bacon et al. (2003)	583	79	On-site
Acadia National Park	2004	Visitors	Manning (2004c)	1,572	75	On-site	
Maryland	Fishing Bay	1986	Goose Hunters	Vaske, Fedler, & Graefe (1986)	230	95	On-site
	Gun Powder River	1984	Trout Anglers	McGurrin (1984)	162	97	On-site
	Savage River	1980	Trout Anglers	Vaske & Donnelly (1980)	203	89	Mailed
	State Wide - Maryland	1977	Turkey Hunters	Donnelly & Vaske (1981)	452	93	Mailed
		1984	Deer Hunters	Vaske, Graefe, & Caldwell (1984)	998	72	Mailed
	Tuckahoe State Park	1984	Goose Hunters	Vaske et al. (1984)	62	98	On-site
	Upper Youghiogheny River	1989	Kayakers	Graefe, Gitelson, Fedler, & Zeigler (1989)	936		On-site
			Rafters				
Massachusetts	Boston Harbor Islands	2000	Visitors	Budruk, Manning, Valliere, & Wang (2002)	694	85	On-site
	Cape Cod	2005	Hunters	Kuentzel (2005)	408	94	On-site
Michigan	Stockings Park - Sleeping Bear Dunes Nat'l Lakeshore	1977	Driving Tourists	Randall (1977)	481	87	On-site
Minnesota	BWCA	1982	Canoers	Adelman, Heberlein, & Bonnicksen (1982)	196	65	On-site
Nevada	Lake Mead	1994	Boaters	Graefe (1994a)	821		On-site

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	Lake Mohave	1994	Boaters	Graefe (1994b)	430		On-site
New Hampshire	Great Gulf Wilderness	1980	Backpackers in Wilderness	Donnelly (1980)	721	96	On-site
	White Mountain National Forest	1984	Backpackers in Wilderness	Graefe et al. (1984)	385	97	On-site
New York	Sagamore Hill National Historic Site	2002	Visitors	Manning (2002c)	409	98	On-site
	Saratoga National Historic Site	2001	Visitors	Manning (2001d)	367	68	On-site
North Carolina	Cape Hatteras National Seashore	2002	Visitors	Vogelsong (2003)	1,015	62	Mailed
	Nantahala River	1994	Canoers Kayakers Rafters	Tarrant, Cordell, & Kibler (1997)	666	52	Mailed
		1994	Canoers Rafters Kayakers	Tarrant et al. (1997)	1,470	97	On-site
Oregon	Clackamas River	1988	Boaters	Shelby, Johnson, & Brunson (1990)	309	84	Mailed
		1995	Boaters	Shelby, Vaske, & Heberlein (1989)			
	Deschutes River	1987	Boaters	Shelby, Whittaker, Specker, & Starkey (1987)	479	83	Mailed
	Eagle Cap Wilderness	1980	Hikers in Wilderness	Petersen (1980)	118	84	Mailed
	Illinois River	1981	Rafters	Shelby & Colvin (1981)	263	92	Mailed
	Jefferson County Reservoirs	1997	Campers Day-use Area Users	Dedrick, Hall, Shelby, & Everett (1998)			
	McKenzie River	1991	Boaters	Rolloff, Hall, & Shelby (1995)			
		1996	Boaters	Hall & Shelby (1996)	303	46	Mailed

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	Mt. Jefferson Wilderness	1991	Hikers	Dawson & Watson (2000)	594	81	Mailed
	Mt Jefferson Wilderness	1980	Backpackers in Wilderness	Petersen (1980)	261	73	Mailed
	Mt. Washington Wilderness	1991	Hikers	Dawson & Watson (2000)	241	81	Mailed
	Oregon Beaches	2001	Beachgoers	Shelby & Tokarczyk (2002)			On-site
	Oregon Caves National Monument	1995	Monument Visitors	Rolloff, Johnson, & Shelby (1996)	616	63	Mailed
	Rogue River	1979	Rafters	Shelby & Colvin (1979)	268	78	Mailed
	Snake River (Hell's Canyon Nat'l Rec. Area)	1980	Rafters	Shelby & Danley (1980)	295	83	Mailed
	Three Sisters Wilderness	1991	Hikers	Dawson & Watson (2000)	636	81	Mailed
Pennsylvania	Berlin Lake	1989	Boaters	Graefe (1989)	866		On-site
	Presque Isle	1994	Boaters	Graefe (1994c)	479		On-site
	Raystown Lake	1987	Boaters	Graefe, Todd, Moore, & Lenz (1988)	1,170	90	On-site
South Carolina	Fort Sumter National Monument	1987	Tourists	Andereck & Becker (1993)	1,687	96	On-site
Utah	Antelope Island State Park	1999	Frontcountry Visitors Hikers Horseback Riders Mountain Bikers	Brunson & Christensen (2000)	504	59	Mailed
	Arches National Park	1996	Mountain Bikers	Fix (1996)	310	90	On-site
		1997	Visitors	Wang, Manning, Lawson, & Valliere (2001)	791	70	
	Grand Staircase - Escalante National Monument	1999	Backcountry Visitors	Palmer, Lael, & Brunson (May, 2000)	550	90	Mailed
		1999	Hunters	Palmer, Lael, & Brunson (July, 2000)	163	67	Mailed

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	Zion National Park	2003	Hikers	Manning (2003e)	333	53	Mailed
		2003	Users	Manning (2003e)	310	82	On-site
Vermont	Shelburne Museum	1995	Day Visitors	Kuentzel (1995)	894	79	On-site
Washington	Enchantments National Forest	1988	Backpackers in Wilderness	Shelby, Goodwin, Brunson, & Anderson (n.d.)	345	85	On-site
	White Salmon River	1991	Boaters	Shelby & Wing (1993)	857		On-site
West Virginia	Dolly Sods Wilderness	1982	Hikers in Wilderness	Vaske, Donnelly, Heberlein, & Shelby (1982)	149	96	On-site
	Seneca Rocks - Monongahohela Nat'l Forest	1985	Rock Climbers	Botkin (1985)	416	98	On-site
Wisconsin	Apostle Islands National Lakeshore	1981	Boaters	Heberlein & Alfano (1983)	323	57	On-site
		1985	Sail Boaters	Kuentzel & Heberlein (2003)	377	79	Mailed
		1997	Sail Boaters Sea Kayakers	Kuentzel & Heberlein (2003)	492	69	Mailed
	Bong Wildlife Management Unit	1979	Pheasant Hunters	Heberlein, Baumgartner, & Trent (1980)	924	80	On-site
		1981	Pheasant Hunter	Heberlein (1981)	743	44	On-site
	Brule River	1975	Anglers Tubers Canoers	Heberlein & Vaske (1977)	2,965	95	On-site
		1985	Canoers	Heberlein & Proudman (1986)	1,010	95	On-site
	Door County	1986	Boaters	Heberlein, McKinnell, & Erwin (1986)	229	80	Mailed
	Grand River Marsh	1978	Firing Line Hunters	Kuentzel & Heberlein (1998)	448	75	On-site
		1978	Managed Hunt Hunters	Kuentzel & Heberlein (1998)	935	100	On-site

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	Horicon Grand River Marsh	1986	Goose Hunters	Shelby & Heberlein (1986)	445	75	On-site
		1986	Goose Hunters	Shelby & Heberlein (1986)	913	100	On-site
	Lake Delavan	1986	Recreationists	Insitute of Environ. Studies (1986)	309		On-site
		1986	Riparian Landowners	Insitute of Environ. Studies (1986)	362	75	Mailed
	Public Hunting Area	1980	Pheasant Hunters	Heberlein et al. (1980)	194	93	On-site
	Sandhill Wildlife Management Unit	1979	Deer Hunters	Heberlein & Kuentzel (2002)	285		On-site
		1980	Deer Hunters	Heberlein & Kuentzel (2002)	349		On-site
		1981	Deer Hunters	Heberlein & Kuentzel (2002)	212		On-site
		1982	Deer Hunters	Heberlein & Kuentzel (2002)	325		On-site
		1983	Deer Hunters	Heberlein & Kuentzel (2002)	142		On-site
		1984	Deer Hunters	Heberlein & Kuentzel (2002)	308		On-site
		1985	Deer Hunters	Heberlein & Kuentzel (2002)	122		On-site
		1986	Deer Hunters	Heberlein & Kuentzel (2002)	119		On-site
		1987	Deer Hunters	Heberlein & Kuentzel (2002)	372		On-site
		1987	Deer Hunters	Heberlein & Kuentzel (2002)	372		On-site
		1988	Deer Hunters	Heberlein & Kuentzel (2002)	249		On-site
		1989	Deer Hunters	Heberlein & Kuentzel (2002)	261		On-site
		1986	Wildlife Photographers	Petchenik & Heberlein (1986)	62	72	Mailed
	State Wide - Wisconsin	1977	Deer Hunters	Heberlein & Laybourne (1978)	235	83	Mailed
		1982	Deer Hunters		235		Mailed
		1982	Goose Hunters	Kuentzel & Heberlein (1992)	254	50	Mailed
	Wolf River	1977	Floaters	Blackwood (1977)	304	98	On-site
	Multiple States Appalachian National Scenic Trail	1999	Hikers	Newman et al. (2003)	1,532	66	On-site