F-78-R-6 Región 2

1999 Blackfoot River Creel Census

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Introduction

In the last decade, fish densities and angling pressure have increased in the Blackfoot River in western Montana (Peters and Workman 1996; Schmetterling and Pierce 1999). Until the 1994 creel census, angling use of the Blackfoot River was not well understood. The creel census was conducted to determine creel information from anglers and determine user conflict information specific to the Blackfoot River drainage; this information is necessary for management decisions (Peters and Workman 1996).

Between 1990 and 1999, fishing regulations have not significantly changed in the mainstem Blackfoot River and tributaries, excluding the Clearwater drainage and Scapegoat Wilderness Areas. In 1990 fishing regulations were changed to limit angler harvest. Westslope cutthroat trout (*Oncorhynchus clarki lewisi*) and bull trout (*Salvelinus confluentus*) angling was limited to catch and release in order to increase the numbers of spawning sized fish and protect the viability of populations. Also in 1990 a three fish limit of either brown trout or rainbow trout (*O. mykiss*), none over 12", was enacted. In 1998, bull trout received federal protection as a Threatened species under the Endangered Species Act; currently there is no fishing for bull trout.

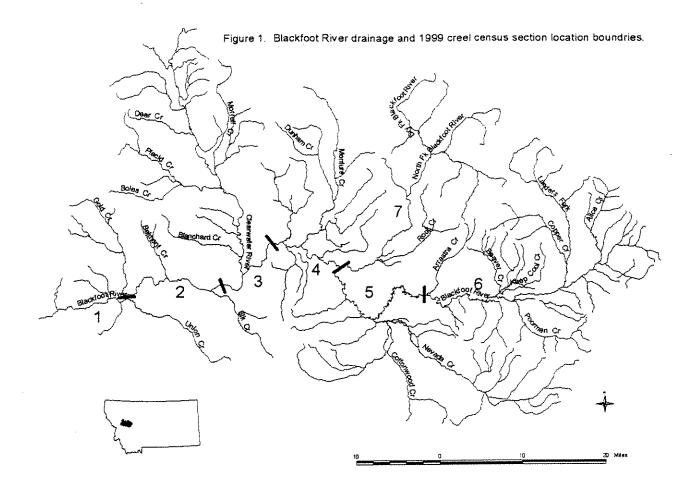
Pressure estimates for the Blackfoot River were conducted as part of a statewide inventory pressure estimates and angler satisfaction ratings (Montana Fish, Wildlife and Parks [MWFP] 2000 a, b). The pressure estimates for the Blackfoot River from 1991 to 1995 showed trends of increased use on the Blackfoot River. The section of river from the Clearwater River confluence to Arrastra Creek confluence showed approximately a 300 % increase in angler days over this time period.

In August of 1999, a second creel census was performed. The 1999 creel census was a cooperative project between the Fisheries and Parks division of MFWP. The creel census was a continued attempt to better understand angler and other recreational use of the Blackfoot River including: fishing pressure, catch, conflict, facility use, evaluation of angler attitudes, and the ability of anglers to identify salmonids found in western Montana. The data collected during a creel census is necessary to develop an effective river management plan for the Blackfoot River.

Objectives:

The objectives of this creel census were:

- 1. To determine the various aspects of the fisherman's catch, including hours fished, species and number of fish caught, and type of tackle used.
- 2. To determine the extent and distribution of float fishing, to examine the degree of conflict between those float fishing and those fishing from the bank and/or wading and to survey users of the river for their opinion on continued float fishing activity.
- 3. Compare data to the 1994 creel census and develop trend analysis for the Blackfoot River drainage.
- 4. Continue the education of Montana anglers regarding fish identification, proper handling techniques, and best methods of hooking and releasing fish.



Methods

We used personal interviews to survey anglers and recreationists throughout the Blackfoot River drainage. Interviews were conducted four days a week, ten hours a day, and were concentrated during periods of highest angling use. During the summer months (August-November) the days when surveys were conducted Friday through Monday. The Blackfoot River Creel Clerks contacted anglers and recreationists, first introduced themselves as a MFWP employee, but not as a game warden; and interviewed them while engaged in recreational activities on the river. The creel clerk also used a raft to access areas that are not easily accessed by vehicle or foot. Interviews were conducted on all sections of the river (Figure 1), with more time dedicated to the areas, days and times of highest use, trying to maximize the number of users interviewed. In addition, the Parks division of MFWP started their survey in June and continued interviewing users through September 1999.

The survey/interview form consisted of an on-site survey (Appendix A) conducted by the creel clerk, and a mail-back survey (Appendix B). Included in this was a stamped and addressed envelope to increase return rates, to be returned by the recreation user after they completed their trip. The on-site questionnaire contained questions regarding type of recreation, number of recreationalist observed on the river, user conflicts, and fishing method, craft and number of fish caught. The mail-back survey contained additional questions regarding aesthetics, conflicts, and

future regulations. There were also questions regarding fish identification, proper release methods and current regulations which were designed to be more informative and educational.

Fishing pressure estimates through instantaneous flights over the drainage were not conducted in 1999. The 1999 pressure estimates are part of the statewide pressure estimates compiled by MFWP (MWFP a).

Results

Eleven hundred fifty river users were contacted on the river in 1999 during the study

period from mid-June through early October. Five hundred seventy of the 1,150 individuals contacted on the river indicated they were angling the day of the interview.

Thirty nine percent (n=224) were angling exclusively from a boat. Thirty eight percent (n=216) were exclusively bank/ wade angling. Twenty three percent indicated that they were angling from a boat and wading (Figure 2).

Sixty three percent of anglers were exclusively fly fishing, eleven percent used only hardware, six percent used only bait (n=32), fourteen percent used a combination (Figure 3). This combination may have consisted of baited flies or people fishing for part of the day with hardware and part of the day with flies.

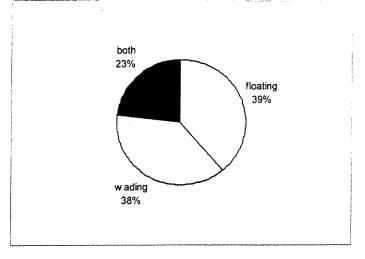


Figure 2. Angling methods on the Blackfoot River in 1999.

Creel data

The surveyed anglers caught two thousand seventy eight fish. Ninety five percent (1,973) of all fish caught were released, only five percent (105) were kept. Sixty six percent of all anglers caught at least one fish. The overall catch rate was 0.79 fish/ hour. Overall, westslope cutthroat trout were the most frequently caught fish (37% of the total catch; Figure 4) and bull trout were the least often caught fish (2%

Six hundred twenty six rainbow trout were caught and 94% (589) were released. Forty three percent of angler reported catching at least one rainbow trout. The average catch rate for rainbow trout was 0.26/ hour.

One hundred fifty four brown trout were caught and most (94%; 144) were released. Twenty percent of all anglers

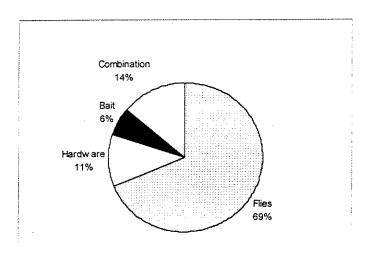


Figure 3. Type of fishing gear used by anglers on the Blackfoot River in 1999.

caught at least one brown trout while fishing, the average catch rate was 0.06/ hour.

Westslope cutthroat trout were the most frequently caught species by anglers (742). Of those caught, 99% (737) were released. Forty two percent of all anglers caught at least one westslope cutthroat trout and the average catch rate was 0.26/ hour.

Anglers caught thirtynine bull trout, and 36 were released (8% kept). Catch rates for bull trout were the lowest of all fish species <0.01/hour.

Anglers caught 445 mountain whitefish, and 92% were released (408). Twenty three percent of all anglers caught at least one mountain whitefish. The average catch rate was 0.15/ hour.

Anglers also caught 50 brook trout (Salvelinus fontinalis) and kept 12.
Twenty-two other fish (e.g., suckers, pikeminnow, and carp [sic]) were reportedly caught by anglers.

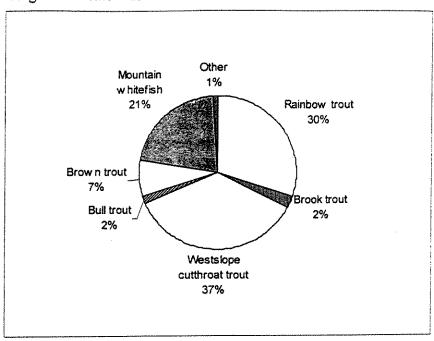


Figure 4. Percent of fish species caught by anglers on the Blackfoot River in 1999 (n=2,078).

Floater survey

A complete listing of the results from each question is in Appendix C.

We surveyed 805 floaters on the Blackfoot River, most of whom were Montana residents (69%) and floated with friends and family (68%). Only 15% reported they hired a commercial outfitter or guide for their trip. The majority (69%) of those interviewed were in groups between 1-5 people and most (72%) used a shuttle service for their trip. Floaters were mostly (65%) males and the average age was 38, of those surveyed over 16.

Most of the floaters (Figure 5) were interviewed from River Junction to Bonner

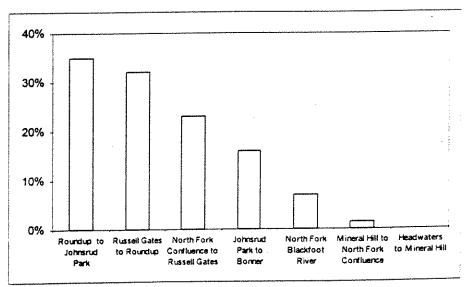


Figure 5. River reaches used by floaters on the Blackfoot River in 1999.

(sections 1-4; Figure 1). Half of all floaters thought river conditions were "just right", and 14% responded that the site was not at all crowded (Figure 6). Only 36% thought that there was any crowding. Most of the floaters (57%) reported seeing between 6 and 20 people on the Blackfoot River, 16% saw fewer than 6 people while 25% saw more than 21. These numbers met people's

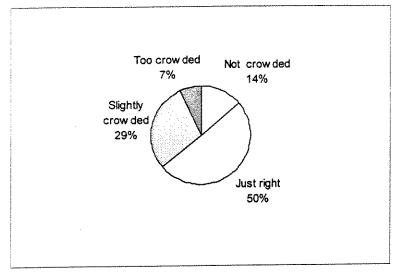


Figure 6. Floater's perception of crowding on the Blackfoot River in 1999.

expectations for the number of people they encountered (Figure 7). Similarly, most floaters (84%) were not disturbed by the number of people nor the behavior of the people they encountered. Only 2% of the floaters interviewed said that both the number and behavior of people they encountered were disturbing.

Non-floater survey

We interviewed 348 non-floaters on the Blackfoot River in 1999, a complete listing of their responses to individual questions is in Appendix D.

Most (79%) non-floaters were with family and friends or alone (14%) with between 1 and

5 people (83%) and only 0.6% reported being with a commercial fishing outfitter. Most of the non-floaters interviewed were from Montana (70%), 29% were from other states (5.7% of which were from Washington) and 1% were from another country. Similar to floaters, 66% of the non-floaters were males and the average age was 36. The most common reason people were recreating on the Blackfoot River was to fish (38%).

Non-floaters were interviewed primarily (80%) from Russell Gates Fishing Access Site, downstream to Bonner (Figure 8). Most 76% of non-floaters thought these areas were not crowded, 5% thought these sites were too crowed (Figure 9).

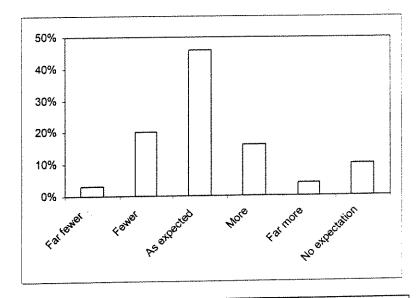


Figure 7. Floaters expectations about the number of people seen on the Blackfoot River in 1999.

Mailback Survey

We received mailback surveys from 328 anglers contacted in 1999. Sixty five percent of

anglers used barbless hooks. Sixty three percent of anglers correctly know the angling regulations for bull trout, 37% did not know. Forty seven percent of the anglers who did not know the correct bull trout fishing regulation thought you could fish, 48% had no idea what the regulation was, and 3% thought you could keep one.

Thirty two percent of anglers did not know how to identify a bull trout, 31.1 % correctly knew that no black markings on the dorsal fin meant it was a bull trout. The remaining anglers answered white marks on leading edges of

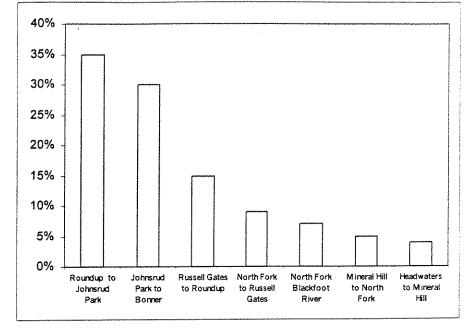


Figure 8. River reaches used by non-floaters on the Blackfoot River in 1999.

fins (21.3%), Red color slash marks (1.8%), wormy black marks (8.8%) and other (4.6%).

Anglers (n=306) rated fishing on the Blackfoot River as good (26.2%), fair (24.1%), very good (22.6%), excellent (11.0%), poor (9.5%).

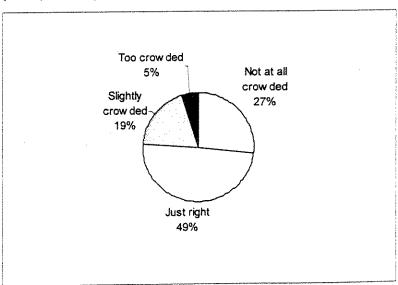


Figure 9. Non-floaters' opinion of crowding on the Blackfoot River in 1999.

Summary and Conclusions

Creel Data

As a result of favorable flow years, fishing regulation changes, and fish habitat restoration, densities of fish are increasing in many sections of the Blackfoot River (Pierce and Schmetterling 1999). The increasing native fish populations are promising, but another concern for river managers is the increased fishing pressure throughout the Blackfoot River drainage. Angler days in the middle section of the Blackfoot River, from the Clearwater River to Arrastra Creek, increased from approximately 2,514 angler days in 1989 to 16,081 angler days in 1999 (MFWP a, b). This section coincides with successful westslope cutthroat trout and bull trout population increases, but both of these species are extremely susceptible to fishing.

Westslope cutthroat trout were caught most frequently in terms of fish per hour and number of fish caught. Catch rates for westslope cutthroat trout are improved since 1994, and make up a larger percentage of the overall catch. However, they are not the most abundant fish species in the mainstem Blackfoot River (Schmetterling and Pierce 1999). Their densities remain low and support a high proportion of this catch and release recreational fishery. Because of the high catchability of these fish found in this study and elsewhere (MacPhee 1966; Berg 1986) continued catch and release may be necessary until greater improvements in their population can be gained.

Currently most anglers on the Blackfoot River practice catch and release fishing (95% of all fish caught, including mountain whitefish) and fly-fishing (69%+ 14% of angler that fished with a combination), and most were using barbless hooks (65.5% of all gear types). Despite that no changes were made in the fishing regulation regarding gear, angling has gone more toward flyfishing and catch and release. In 1994 anglers released 84% of the catch, and in 1999 95% of fish were released. In 1994 (Peters and Workman 1996), 30% of anglers surveyed fished exclusively with bait compared to 6% in 1999 (this study). Furthermore, in 1994, only 42% of anglers exclusively flyfished compared to 69% in this study.

These results indicate that no further changes to gear regulations are necessary and would just exclude anglers and a small contingency. Increases in westslope cutthroat trout densities have been reported in waters with high fishing pressure and barbed hooks (C. Clancy, MFWP, unpublished data). Furthermore, improvement in the river's fishery from population data indicates that fish are being released and densities are increasing despite the increasing pressure.

Catch rates (overall 0.79 fish/hour) were consistent overall with nearby rivers (Peters and Schmetterling 1996) and may have increased in the Blackfoot River since 1994 when the catch rates were 0.70 fish/ hour. The catch rates and harvest of mountain whitefish may be underrepresented in this creel survey. The majority of the mountain whitefish season occurs during the fall, winter and early spring where there is an extended season for them.

Floating is more common now than in 1994 (Peters and Workman 1996). In 1994, bank anglers were more abundant (69%) than floating anglers (31%). In this study, only 38% were exclusively bank angling. The two answers (floating and combination of floating and bank angling) could be combined to reflect that 62% of angler were floating in 1999.

Floater and Non-floater Survey

Floaters observed more people in 1999 than in 1994. Only 16% of floaters encountered fewer than 6 people. In 1994, 65% saw fewer than 6 people. These trends are consistent with angling pressure increases in this same time period (MFWP a), though satisfaction is similar (Peters and Workman 1994).

Some of the questions on the survey may have underestimated or misrepresented some of the user information. For instance, questions regarding who the user was with while recreating on the river caused for many users to choose the answer with family and friends, when in actuality they were on a professionally guided fishing trip with a family member and friends; therefore a underestimation of guided fishing trips occurred. To gather more accurate user recreation activities, this question may want to be separated into two different questions. One question regarding whom accompanied the user on the trip, then a separate question to determine if they were with an outfitter service. Separating questions of this type will result in more accurate information regarding the proportion of professionally guided trips.

By surveying river users on the Blackfoot River, we may have inadvertently biased results toward positive perceptions for certain issues, including river crowding. By interviewing people on the river, they probably do not feel the river is too crowded for their enjoyment. People that think that the Blackfoot River is too crowded would probably not be there. As a result, the answers are as expected in terms of how people perceive river crowding, most did not think it was crowded and most thought the conditions were as they expected. In future interviews, it may be helpful to omit these questions in recognizing the bias. In addition, it may be useful to ask these questions at random to anglers in western Montana or as a part of other creel surveys. For example, when we conduct a Clark Fork River creel survey, one of the questions could be about river crowding on Rock Creek or the Blackfoot River. Despite this potential bias, from this survey, acceptance of the current conditions is common.

Mailback survey

Misidentification of trout is pervasive. Whereas bull trout are often least identifiable to anglers in Montana (Schmetterling and Long 1999, Schmetterling et. al in press) other trout are frequently misidentified. Misidentification of salmonids and unintentional harvest impact management decisions and enforcement activities of MFWP. Similarly only 31% of those responding knew how to correctly identify bull trout.

In addition to anglers not knowing how to identify fish, is the inability of anglers to know and understand the regulations. Thirty seven percent of the mailback respondents did not know the correct regulation for bull trout angling. An angler knowing and understanding regulations is the first assumption of setting regulations (Schill and Kline 1995). Management actions may include having anglers mandatory carry regulations with them. Regulations are worthless if they are not understood and known. However, from this study, most people are practicing catch and release fishing.

Through the mailback questionnaire regarding fish identification and from responses to questions regarding fish species caught, this survey may have displayed the inability of Montana angler's to identify fish species. Results from fish sampling throughout the watershed, indicate that brook trout were located in 39 of 56 tributaries, but are rarely sampled in the mainstem of the Blackfoot River (Pierce and Schmetterling 1999). Anglers interviewed during the 1999 creel

census indicated catching 50 brook trout in the Blackfoot River. Because very few (<10) fish were actually handled by the creel clerks it is difficult to confirm what fish species anglers are catching and reportedly keeping.

Acknowledgements

We thank Mike Lewis (MFWP) for data analysis and summary, Katie Hall for conducting interviews and data entry, and Woody Baxter and Don Peters for logistical support. The Montana Power Company and Bureau of Land Management also provided additional funding.

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Appendix A: Interview Form

ON SITE

What type of group are A. Alone B. Family and /or I C. Club or Organiz		D. Commercial White E. Commercial Fishing F. Institution (Univ.	ng Outfitter	itter		
What size is your group	? Number of people	Number of	vehicles	Number of water	rcraft	
If you are with an outfit	ter, club, organization or	institution please list t	he name and location	n.		
Name:		Business	Location (city):		•	
Did you use a commerci	al vehicle shuttle service	? (Circle one) A. \	Yes B. No			
If you utilized a shuttle	service, please list compa	nny's name:			•	
What activities are you p A. Rafting B. Kayaking C. Canoeing D. Tubing E. Bank Fishing	H. Sun Bathing I. Swimming	K. Horseback Riding L. Hiking M. Nature Study N. Camping	P. Viewing WiQ. Photography	ldlife //Art		
What is the primary active corresponding letter to it		estion) that you are pa	rticipating in during	your visit? (Please u.	se the	
Do you think this site is Too crowded	presently: (check one) Slightly crow	vded	Just Right	Not at all c	rowded	
How satisfied are you ar v satisfied are you with	e with various factors relations following? No Opin	nion Not at all	-	le the appropriate nu		Extremely
Launching Facilities	s X	Satisfied 1	2	3	4	Satisfied 5
Parking	X	1	2	3	4	5
Bathroom Facilities	x	1	2	3	4	5
Campground Facilit	ties X	1	2	3	4	5
Day Use Facilities	X .	1	2	3	4	5
Regulation/Info Sig	ns X	1	2	3	4	5 -
Litter Control	x	. 1	2	3	4	5
Road Conditions	x	1	2	3	4	5
River Access	x	1	2	3	4	5
Water Quality	x	1	2	3	4	5
Johnsrud Park Roundup to Johnsrud Russell Gates North Fork Co	ohnsrud Park to Roundup onfluence to Russell Gate o North Fork Confluence o Mineral Hill lackfoot River	s	heck appropriate liv	ne or lines)		

(OVER)

10) Did you fish (check appropriate line): With the use of the boat	From the ban	k or wading	Both			
11) Time of hung(a) you used while fishing (a	ivala annuanuiata latt					
11.) Type of lures(s) you used while fishing (c) A. Flies B. Hardware (spinn		C. Bait	D. Combi	nation		
12.) How long did you fish? (Round to the ned	arest half hour)					
13.) What are the type and number of fish you	kent and released:					
Number of RAINBOW TROUT	Kept	Release	đ			
Number of BROWN TROUT	Kept	Release	d			
Number of CUTTHROAT TROUT	Kept	Release	d		•	
Number of BULL TROUT		Release	đ			
Number of BROOK TROUT			d			
Number of WHITEFISH						
OTHER:	Kept	Release	di .			
A.) 0 - 5 B.) 6 - 20 C.) 21 - 50 15.) How does the number of people you've see Far more than expected More than expected About as many as expected A.) Which of the following statements most contained as a second statement of people nor B.) The number of people was more C.) The behavior of people was more D.) Both the number of people and the	een today on the river Fewer t Far few I had no losely represents how their behavior were of listurbing to me than disturbing to me than	compare to the nur han expected er than expected expectation you felt about the d listurbing to me. their behavior.	nber you have	expected to see'	? (Please check o	·
17.) Finally, we have a few questions about yo	u. You will not be id	entified with your a	nswers.		•	
Male Female Age	section the section of the section o	What is your Zi	p code?			
18.) We would like your name and address s not be used for any other purpose. All Name:	information you giv	e us will be kept st	rictly confide	rvey. Your na ntial	ne and address	will
Mailing Address:			******			
City:	State:	ZIP Cod	le:		-	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			MIIIII.
For Research Technician:						
Form I.D. #:	_(Blkft99)	Date:/	_/	Time:		
Location:		Check one: F	Put-In[]Pu	it-out[] }	leither []	
Est. # of People:	Est. # of Vehicles: _	Wea	ather:			

Appendix B: Mailback Survey Form

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1.) People visit river corridors for a number of reasons and experiences. Listed below are some potential reasons why people visit the Blackfoot River and what they might enjoy. There are two parts to this question. Rate each "reason" as to how important it is to you and then how satisfied you were for that "experience." Please answer the following questions for the trip on which you received this survey.

Reason/Experience	Not Impo		,		Very mpoi		No Opinion		Not tisfi	ed<-				ery sfied	No Opinion
To observe scenic beauty	0	1	2	3	4	5	х	(0	1	2	3	4	5	x
To take in some natural surroundings	0	1	2	3	4	5	х	(0	1	2	3	4	5	X
To do something with the family	0	1	2	3	4	5	х)	1	2	3	4	5	Х
For the adventure	0	1	2	3	4	_5	X	()	1	2	3	4	5	X
To be with my friends	0	1	2	3	4	5	X	()	1	2	3	4	5	X
To improve my physical health	0	1	2	3	4	5	х	()	1	2	3	4	5	X
To avoid mechanized recreation	0	1	2	3	4	5	х	()	1	2	3	4	.5	X
To experience solitude	0	1	2	3	4	5	х	()	1	2	3	4	5	X
To enjoy smells and sounds of nature	0	1	2	3	4	5	х	()	1	2	3	4	5	X
Sense of personal accomplishment	0	1	2	3	4	5	х	()	1	2	3	4	5	X
To get away from other people	0	1	2	3	4	5	х	()	1	2	3	4	5	X
To meet new people	0	1	2	3	4	5	X	()	1	2	3	4	5	X
To observe wildlife	0	1	2	3	4	5	Х	()	1	2	3	4	5	x
To participate in an outdoor activity	0	1	2	3	4	5	х	()	1	2	3	4	5	X
To fish	0	i	2	3	4	5	Х)	1	2	3	4.	5	X
To reduce/release built up tension	0	1	2	3	4	5	X			1	2	3	4	5	X
To experience whitewater floating	0	1 /	2	3	4	5	X	0)	1	2	3	4	5	X
2.) How did you feel about the parking	g at the	e acces	ss site	e(s) dı	ıring 1	the vi	sit you recei	ved thi	s su	rvey-	quest	ionna	ire? <i>(</i>	Chec	k one)

2.) How did you feel about the parking at the access site(s) during the visit you received this survey-questionnaire? (Check one)						
Not a	problem	A slig	ght problem	Moderate problems	A big problem	
•	-		site(s) you used			
3.) In relation to the Blackfoot River?		of summer ou	itdoor recreation ye	ou do, how much of that time	do you spend on or along the	
Less than 5%	Less	than 25%	Less than 5	10% Less than 75%	Over 75%	

(PAGE TWO)

4.) Are there areas on or along the Blackfoot Rive	er that y	you avoid?	-	YES		NO		
If "YES", Where and Why?			·····					
5.) Are there areas on or along the Blackfoot Rive	er that y	ou readily	seek?		Y	ÆS _	NO	
If "YES", Where and Why?			***************************************					······································
6.) Please decide how much you agree or disagree	Stron		-			priate numb Strongly >Agree	NO	
The amount of floaters on the river should be restricted on weekends	1	2	3	4	5	6	X	
If overcrowding is occurring at a public access site, there should be limited number of vehicles allowed	1	2	3	4	5	6	X	
There should be more developed access sites along the Blackfoot River	1	2	3	4	5	6	x	
The existing railroad path that follows the river between Johnsrud Park and Corrick River Bend should be developed into a designated, multi-use (non-motorized) recreational trail	1	2	3	4	5	6	Х	
I feel safe while camping/visiting/recreating along the Blackfoot River	1	2	3	4	5	6	X	
Campground Host/Caretaker stationed at the campgrounds is needed during the summer months	1	2	3	4	5	6	x	
More law enforcement personnel are needed in the river corridor to resolve/deter criminal issues	: 1	2	3	4	5	6	X	
There should be a ban of glass containers along the Blackfoot River	1	2	3	4	5	6	x	
No new access sites should be developed, maintain the existing ones	1 1	2	- 3	4	5	6	X	
At this time I would support limits on commercial (outfitter)floating on the Blackfoot River	1	2	3	4	5	6	X	
At this time I would support limits on non- commercial (private) floating on the Blackfoot Riv	l er	2	3	4	5	6	x	
The vegetation and soils in the access sites are heavily impacted	1	2	3	4	5	6	x	
Lewis & Clark Bicentennial Commemoration 7.) During the Lewis & Clark Bicentennial Commemoration		Not at a	ıll	2006, hov Somew Likel	hat	are you to:		Very Likely
Trace portions of Lewis' historical route through the Blackfoot River valley?		Likely l	,	2	' J	3		4

(NEXT PAGE)

3

2

Visit other Montana Lewis & Clark sites?

(PAGE THREE)

	YES	N	0		Undec	ided		
USER FEES: Montana Fish, Wildlirecreation. The annuthe area free of litter,	al access fee would	be used to	pay for operat	ion of the	e sites and	d caretal	ker services	Couch as ka
9.) Do you have a M	ontana fishing licen	se? (Check	one)	YE	es _	NC)	
10.)Would you visit a	nd recreate on the B	lackfoot Ri	ver if there we	ere a cha	rge for an	annual	access fee?	(Check one
	YES	N)					
recreation area?	visit the Blackfoot RYES e?:	NC)		fee, would	d you go	to another	outdoor

1.) How strongly do y	on disagree or agre	e wim me i	Strongly Strongly Disagre	7	ir Adrius var	···	Strongly -> Agree	No Opinion
ndividual users should	I have to pay to use	access sites	1	2	3	, 4	5	X
ommercial outfitters (ompanies) should hav			1	2	3	4	5	X
ncome from fishing lic sed to pay for river ac		ue to be	1	2	. 3	4	5	х
ncome from state taxes	s should be used to p	oay for	1	2	3	4	5	X
state sales tax on rive ayaks, paddles, life jac ay for access sites			1	2	3	4	5 .	Х
lease answer the 2.) Do you use barbles	following questi s hooks or pinch do	ons if you wn hook ba	u <u>fish</u> on th	e Blacl ckfoot R	kfoot R iver?		/ES	NO
What is the regulating A.) Can keep one for B.) Can fish for but	ion regarding fishing ish Il trout but must rele		C.) N		onal fishi		ull trout	
A bull trout can be A.) Wormy black m B.) No black markir	arkings on dorsal fü		C.) Red color D.) White ma			v	E.) De	o not know
i.) Overall, how would A.) Poor	you rate the fishing B.) Fair	experience C.) Good		it trip on ry Good		kfoot Ri E.) Exc		e one)

(PAGE FOUR)

River is managed? Please	use the space of	elow or send	an extra p	age in a separ	ate envelope.	
* .						
		• .			·	
					•	
·			•			
		• •				
	THANKS AG	AIN FOR YO	OUR HELP	:		
Please return y	our completed	l questionn	aire in th	e envelope p	rovided to:	
	3201	ish, Wildli 2 Parks Di Spurgin F a, MT 598	vision load	cs		
//////////////////////////////////////		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Form I.D. Number:	_ (Blkft99)					
	<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<i></i>

Appendix C: Blackfoot River Floater Responses

• Type of Group:

```
68% Family and/or friends
15% Commercial Fishing Outfitter
6% Institution (e.g., University, military, etc.)
5% Club or Organization (e.g., church, camp, etc.)
4% Commercial Whitewater/Scenic Outfitter
2% Alone
```

Several separate questions were combined here

Group Size:

```
63% 1-5 people
21% 6-10
10% 11-20
4% 21-30
2% More than 30
Mean = 7.2 people; Median = 4.0
```

Number of Watercraft in the Group:

```
54% 1 watercraft
20% 2
15% 3
11% 4 or more
Mean = 2.4 watercraft; Median = 1.0
Note: 41% non-response rate to this question for tubers
```

• Use of Shuttle Service:

```
72% Yes 28% No
```

Note: 36% non-response rate to this question

• Residence of Respondents:

69%	Montana	
30%	Other U.S. states	
1%	International	1 1 50/
Californi	1 = 5%, Oregon = 1.9%, New York = 1.7%, Texas = 1.6%, Color	ado = 1.5%

Gender of Respondents:

65%	Male
35%	Female

Age of Respondents:

Mean = 38 years; Median = 37
Only respondents 16 years of age or older were included in the study

Primary Activity Participated in by Respondents During Their Visit to the Blackfoot River:

33%	Rafting
33%	Float fishing
6%	Tubing
5%	Canoeing
5%	Kayaking
5%	Bank fishing
13%	Other

River Stretch Visited by Respondents the Day They Were Interviewed:

35%	Roundup to Johnsrud Park	
32%	Russell Gates to Roundup	
23%	North Fork Confluence to Russell Gates	
16%	Johnsrud Park to Bonner	
7%	North Fork Blackfoot River	
1.5%	Mineral Hill to North Fork Confluence	
0.1%	Headwaters to Mineral Hill	

0.1% Percentages add to greater than 100% because many respondents indicated they visited, or planned to visit, more than one river stretch the day of their interview

Perceptions of Crowding at the Site Where Respondents Were Interviewed:

14%	Site was not at all crowded with respect to number people and/or vehicles
50%	Just right
29%	Slightly crowded
7%	Too crowded

Number of People Seen by Respondents While Floating the River the Day They Were Interviewed:

```
0-5 people
16%
             6-20
57%
             21-50
21%
              51-100
2%
             More than 100
2%
             The number is important, but could not specify a number
1%
             The number of people makes no difference
1%
```

Note: 27% non-response rate to this question

Extent to Which Expectations Were Met With Respect to the Number of People Seen by Respondents While Floating the River the Day They Were Interviewed:

3%	Far fewer people were seen than expected
20%	Fewer than expected
46%	About as many as expected
16%	More than expected
4%	Far more than expected
10%	No expectation
Note:	25% non-response rate to this question

How Respondents Felt about the Number of People They Saw While Floating the River the Day They Were Interviewed:

84%	Neither the number of people nor their behavior were disturbing to me The number of people was more disturbing to me than their behavior
11%	The number of people was more disturbing to the than the number of people The behavior of people was more disturbing to me than the number of people
3%	The behavior of people was more disturbing to the than the manner of people was more disturbing to me
2%	Both the number of people and their behavior were disturbing to me
Minana	279/ non-response rate to this question

Note: 27% non-response rate to this question

Satisfaction With Various Factors Associated With the River Experience:

Percent Who Responded

<u>"1" or "2"</u>	Mean Score	Median Score	
6.8%	4.0	4.0	Launching Facilities
6.6%	4.0	4.0	Parking
13.5%	3.7	4.0	Bathroom Facilities
8.7%	3.9	4.0	Campground Facilities
4.2%	4.1	4.0	Day Use Facilities
8.2%	3.9	4.0	Regulation/Info Signs
7.6%	4.0	4.0	Litter Control
13.5%	3.7	4.0	Road Conditions
8.2%	4.1	4.0	River Access
3.1%	4.3	4.0	Water Quality

Responses based on a scale from 1 (not at all satisfied) to 5 (highly satisfied)

Appendix D: Blackfoot River Non-Floater Responses

• Type of Group:

```
79% Family and/or friends
14% Alone
4% Club or Organization (e.g., church, camp, etc.)
3% Institution (e.g., church, camp, etc.)
0.6% Commercial Fishing Outfitter
Several separate questions were combined
```

Group Size:

```
83% 1-5 people

8% 6-10

9% 11-20

0.3% More than 20

Mean = 4.2 people; Median = 2.0
```

• Residence of Respondents:

```
70% Montana
29% Other U.S. states
1% International
Washington = 5.7%, Idaho = 2.4%, North Carolina = 2.1%, Minnesota = 1.8%
```

Gender of Respondents:

```
66% Male 34% Female
```

• Age of Respondents:

```
Mean = 36 years; Median = 34
Only respondents 16 years of age or older were included in the study
```

Primary Activity Participated in by Respondents During Their Visit to the Blackfoot River:

38%	Bank usung
15%	Rest and relaxation
14%	Camping
6%	Swimming
4%	Sunbathing
4%	Picnicking
4%	Viewing wildlife
15%	Other

Donk fishing

River Stretch Visited by Respondents the Day They Were Interviewed:

35%	Roundup to Johnsrud Park
30%	Johnsrud Park to Bonner
15%	Russell Gates to Roundup

9%	North For Confluence to Russell Gates		
7%	North Fork Blackfoot River		
5%	Mineral Hill to North Fork Confluence		
4%	Headwaters to Mineral Hill		
Percentages add to greater than 100% because a few respondents indicated they visited, or planned to			
visit, more than one river stretch the day of their interview			

Perceptions of Crowding at the Site Where Respondents Were Interviewed:

27%	Site was not at all crowded with respect to number people and/or vehicles
49%	Just right
19%	Slightly crowded
5%	Too crowded

Satisfaction With Various Factors Associated With the River Experience:

Percent Who Responded

<u>"1" or "2"</u>	Mean Score	Median Score	
10.8%	3.8	4.0	Launching Facilities
4.5%	4.2	4.0	Parking
13.2%	3.9	4.0	Bathroom Facilities
5.3%	4.1	4.0	Campground Facilities
	4.1	4.0	Day Use Facilities
5.0%	4.0	4.0	Regulation/Info Signs
5.1%	3.9	4,0	Litter Control
7.3%	3.7	4.0	Road Conditions
13.6%	=	4.0	River Access
11.1%	4.0	***	Water Quality
1.9%	4.3	4.0	Water Quarty

Responses based on a scale from 1 (not at all satisfied) to 5 (highly satisfied)