



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Water Resources Division
2617 E. Lincolnway, Suite B
Cheyenne, Wyoming 82001-5662

SCP-23-00
2000 report

RECEIVED

JAN 18 2001

FISHERIES DIV.
FISH, WILDLIFE & PARKS

January 12, 2001

Ms. Karen Dimmitt
Montana Fish, Wildlife, & Parks
Fisheries Division
P.O. Box 200701
Helena, Montana 59620

Dear Ms. Dimmitt:

Please find enclosed fish-community data obtained in 2000 under collecting permit number SCP-23-00. The Clarks Fork of the Yellowstone River was the only site sampled for fish; no fish were retained.

Thank you for your cooperation and assistance in this effort. If you need other information or have any questions, please feel free to contact Dave Peterson at 307-778-2931, extension 2711 or by email at davep@usgs.gov.

Best regards,

Thomas Quinn
Chief, Yellowstone River Basin
NAWQA Study Unit

Enclosures

Copy To: Don Skaar, Montana Fish, Wildlife and Parks

REPORT OF FISH TAKEN UNDER A SCIENTIFIC COLLECTOR'S PERMIT -- 2000
Year

Column No. 5: "Time of Year" use the following codes: 1=Jan Feb Mar; 2=Apr May Jun; 3=Jul Aug Sep; 4 = Oct Nov Dec

Column No. 6: "Water and Location" include County and Nearest Landmark.

Telephone No. & Area Code
307/778-2931 X 2711

City Cheyenne

State *wy*

Zip Code 82001

Species Taken

² Approximate
Number Taken

Size Range
Inches

Gear Used

5
Time of Year

6 Water and Location

None

- 0 -

NA

Barge 55

3

Clarks Fork Yellowstone
at Edgar (Carbon County)

Fish Sampling Equipment

1. Study Unit Y E L L

2. Date 09-27-00
Month Day Year

3. Station Name Clarks Fork Yellowstone R. at Edgar 4. Station Identification Number 06208500

5. Investigators Peterson, Wright, Kinsey, Zett, Massen

6. Reach Conditions _____

7. Reference Location _____
Latitude ____ deg ____ min ____ sec Longitude ____ deg ____ min ____ sec

8. Reach Length _____ 9. Water Quality: Conductivity _____
Temperature _____ Dissolved oxygen _____

10. Sampling gear:

ELECTROFISHING (CODE)

____ BACKPACK-First Pass (11A)	Model _____	Output voltage _____	Seconds _____
	Beginning Time _____	Ending Time _____	
____ BACKPACK-Second Pass (11B)	Model _____	Output voltage _____	Seconds _____
	Beginning Time _____	Ending Time _____	
____ TOWED-First Pass (12A)	Model <u>Sm-Ro</u>	Output voltage <u>High ca</u>	Seconds <u>1390</u>
	Beginning Time _____	Ending Time _____	
____ TOWED-Second Pass (12B)	Model <u>Sm-Ro</u>	Output voltage <u>High ca</u>	Seconds <u>924</u>
	Beginning Time _____	Ending Time _____	
____ BOAT-First Pass (13A)	Model _____	Output voltage _____	Seconds _____
	Beginning Time _____	Ending Time _____	
____ BOAT-Second Pass (13B)	Model _____	Output voltage _____	Seconds _____
	Beginning Time _____	Ending Time _____	

SEINING (CODE)

____ HAUL (21A)	Number of _____	Beginning Time _____	Ending Time _____
____ KICK (22A)	Number of _____	Beginning Time _____	Ending Time _____
____ BEACH (23A)	Number of _____	Beginning Time _____	Ending Time _____

GILL NETTING (CODE)

____ EXPERIMENTAL (31A) Number of _____ Beginning Time _____ Ending Time _____

HOOP NETTING (CODE)

____ (41A) Number of _____ Beginning Time _____ Ending Time _____

ADDITIONAL METHODS (CODE)

____ (method 1) (51A) Number of _____ Beginning Time _____ Ending Time _____

COMMENTS: _____

Figure 7.--Fish sampling equipment field data sheet.

Fish Species

1. Study Unit Y E L L

2. Date 09-27-00
Month Day Year

Page 1 of 4

3. Station Name Corks Fork Edgar

4. Station Identification Number 06208502

5. Investigators

6. Taxonomic Specialist

7. Sampling gear code Pass 1

SPECIES	TOTAL LENGTH	STANDARD LENGTH	WEIGHT	ANOMALIES	NUMBER
SHRH	425	342	1100	PA	
SHRH	499	404	1600	LE	
SHRH	437	365	1100	PA, LE	
SHRH	469	377	1300	LE	
SHRH	429	351	1100		
SHRH	440	357	1200		
BT	345	305	1371		
MWFF	272	234	150		
MWFF	202	174	69		
MWFF	320	279	1220		
MWFF	199	167	64.0		
MWFF	272	234	179		
MWFF	212	182	80.5		
MWFF	130	111	17.6		
MWFF	142	124	23.1		
MWFF	129	109	17.4		
MWFF	134	115	18.2		
MWFF	135	116	20.8		
FHC	96	80	7.2		
FHC	81	66	4.5		
LNS	402	344	591		
LNS	290	242	240		
LNS	347	291	367		
LNS	243	204	133		
LNS	455	389	280		
LNS	250	215	150		
LNS	361	320	161		
LNS	275	236	202		
MS	165	146	47		
MS	160	139	46.3		
MS	162	137	52.7		
MS	140	124	31.5		
LNS	315	261	296		

Figure 8.--Fish species field data sheet.

BT = Brown Trout

1. Study Unit _____ 2. Date 09-27-00 Page 2 of 4
Month Day Year
3. Station Name Clarks Fork Edge 4. Station Identification Number 0020250
5. Investigators _____
6. Taxonomic Specialist _____ 7. Sampling gear code Poss 1

Figure 8.--Fish species field data sheet.

Fish Species					
1. Study Unit <u>Y E L L</u>	2. Date <u>09-27-86</u> Month Day Year		Barge Page <u>3</u> of <u>4</u> 924Sec.		
3. Station Name <u>Clark Fork Yellowstone</u>	4. Station Identification Number <u>06208500</u>				
5. Investigators <u>R. at Elgar</u> <u>DA Peterson, Smirkin, F. Wright</u>					
6. Taxonomic Specialist _____			7. Sampling gear code <u>Pass 2</u>		

SPECIES	TOTAL LENGTH	STANDARD LENGTH	WEIGHT	ANOMALIES	NUMBER
MWF	239	290	293		
MWF	330	286	304	PA (Parasite)	
MWF	2103	223	119		
MWF	409	353	480	PA	
MWF	210	145	86		
MWF	319	246	254		
MWF	223	188	88		
MWF	145	126	25		
MWF	235	200	114		
WS	412	350	580	PA	
LNS	336	237	378		
MWF	235	203	107		
LNS	234	201	116		
LNS	221	189	121	PA	
LNS	175	148	52.8	Shortened operculum	
LNS	145	120	29.6		
MS	177	151	63.8		
MS	185	165	68.9		
MS	100	91	13.7	Shortened operculum	
MS	162	140	51.0		
MS	158	138	51.9		
MS	124	102	43.3		
MS	150	131	41.6		
LNS	136	115	24.6		
MS	145	128	35.0		
LNS	125	115	20		
FHC	134	110	21.3		
MS	142	123	33.1		
FHC	144	118	29.4		
MS	120	99	20.6		
MS	110	96	13.4		
LNS	110	92	12.6		
MS	94	81	9.4		

Figure 8.--Fish species field data sheet.

FHC = Flat-head chub

MWF = Whitefish
LNS = Longnose Sucker
WS = White Sucker
MS = Mountain Sucker

Fish Species

1. Study Unit Y E L C

2. Date 09 27 00
Month Day Year

Page 2 of 4

3. Station Name Clarks Fork Yed 4. Station Identification Number 06208500

5. Investigators

6. Taxonomic Specialist _____ 7. Sampling gear code Pado 2

[illegible]

Figure 8.--Fish species field data sheet.