

REPORT

ON

FISHERIES INVENTORY FOR STREAMS WITHIN
THE STATEWIDE SECTION 208 WATER QUALITY
MANAGEMENT PLANNING AREA IN MONTANA

PREPARED BY: GEORGE D. HOLTON

FISHERIES DIVISION
MONTANA DEPARTMENT OF FISH AND GAME
HELENA, MONTANA

IN FULFILLMENT OF CONTRACT WITH:

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
WATER QUALITY BUREAU
HELENA, MONTANA

SEPTEMBER 30, 1977

MONTANA DEPARTMENT OF FISH AND GAME

FISHERIES DIVISION

FISHERIES INVENTORY FOR STREAMS WITHIN
THE STATEWIDE SECTION 208 WATER QUALITY
MANAGEMENT PLANNING AREA IN MONTANA

Objectives

To inventory at least 3,200 kilometers of streams in the statewide 208 study area. Data were to be entered into a computer data base where they would be available for retrieval and compilation by the Department of Health and Environmental Sciences. Emphasis was to be on streams with important game and sport fish populations and streams having man-caused fish habitat problems, particularly water quality problems.

Data to be entered into the data base included:

1. Identification -- stream name, state code, National Watershed Number (Hydrologic Unit number), reach number and boundaries
2. Resource value -- ratings from 1 to 4 as follows:
 - a) Highest-valued fishery resource
 - b) High-priority fishery resource
 - c) Substantial fishery resource
 - d) Limited fishery resource
3. Administrative locations
4. Ingress -- a code number from 1 to 7 describing types of legal rights to enter
5. Peak water temperature reached in an average summer
6. Indication of presence of spring creek defined as having fairly constant temperature and flow and clear water
7. Indication as to whether or not water temperature, flow pattern, and/or fish food are significantly affected by a lake or impoundment or if a downstream lake or reservoir results in fish runs into a reach or ice problem in a reach
8. Special value -- used to show value of a reach which does not have a significant game or sport fish population
9. Fish population -- type, abundance and fishs' use of reach. Number of catchable size game and sport fish is recorded when available

10. Habitat trends -- indicated as improving, deteriorating or static
11. Esthetics -- a code number from 1 (poorest) to 5 (best)
12. Entries made for a variety of natural and man-caused limiting factors including man-caused pollution.

Procedures

This work was part of an on-going effort by the Montana Department of Fish and Game, in cooperation with the U. S. Forest Service, to enter stream survey information into a computer data base. Information from field fisheries biologists were entered onto interagency stream fishery data input forms (attachment 1) using a standard set of instructions and codes (attachment 2). Clerical personnel entered additional information (e.g., National Watershed Numbers or Hydrologic Unit) and checked entries for completeness and proper coding. Data from the input forms were keypunched and recorded on magnetic tape.

Accomplishments

In fulfillment of this contract, data were entered into the data base for approximately 5,800 stream kilometers in the statewide planning area. Attachment 3 is a listing by National Watershed Number (Hydrologic Unit) of all stream reaches entered to date. This includes streams within the jurisdiction of the areawide planning organization as well as those in the statewide 208 study area. Some reaches do not have entries for all the items specified under Objectives. Specifically, item 2 (resource value) was not entered as, at the time of writing this report, the rating scheme has not been completely worked out.

Financing under this contract was terminated July 1, 1977 with the exception of certain data processing; however, as indicated above, this work is on-going. It is anticipated that between now and June 30, 1978 many new stream reaches will be entered into the data base and additional data including resource values will be entered for reaches presently in the data base. A tape and key-punch format are not furnished with this report but will be available on request. It is recommended that at intervals new tapes be requested so as to take advantage of newly entered data. Fisheries Division personnel will be happy to assist in use of the data base.

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
213	CHAIN CREEK	01070006	22108501	00	2.2		
4	CORRAL CREEK	01070006	22131601	00	2.3		
215	HAKEL GULCH	01070006	22294001	00	3.0		
216	HELLROARING CREEK	01070006	22305201	00	3.8		
217	LAKE FORK ROCK CREEK	01070006	22347201	00	8.5		
218	MAURICE CREEK	01070006	22392001	00	1.7		
228	UNNAMED TRIB ROCK CREEK	01070006	22495601	90	2.5		
227	UNNAMED TRIB ROCK CREEK	01070006	22495601	91	2.6		
226	RATINE CREEK	01070006	22495601	92	2.6		
225	QUAD CREEK	01070006	22495601	93	4.3		
224	MISERY CREEK	01070006	22495601	94	3.9		
223	LOST PICKET CREEK	01070006	22495601	95	2.7		
222	LADUALA CREEK	01070006	22495601	96	2.6		
221	HOWELL GULCH	01070006	22495601	97	3.2		
220	CYCLONE CREEK	01070006	22495601	98	3.0		
219	BUENA VISTA CREEK	01070006	22495601	99	2.6		
229	SEELY CREEK	01070006	22520810	00	2.4		
230	SHEEP CREEK	01070006	22530601	00	3.0		
231	SHERIDAN CREEK	01070006	22537610	00	1.7		
232	SNOW CREEK	01070006	22564201	00	7.2		
233	SPRING CREEK	01070006	22603401	00	2.6		
234	WYOMING CREEK	01070006	22699301	00	3.3		
520	MADISON RIVER	10020007	13340001	01	37.0		
521	MADISON RIVER	10020007	13340001	02	20.9		
587	MADISON RIVER	10020007	13344001	01	25.7		
523	MADISON RIVER	10020007	13344001	02	56.3		
522	MADISON RIVER	10020007	13348001	00	1.6		
524	MADISON RIVER	10020007	13352001	00	2.4		
347	BEAVER CREEK	10030101	17049601	01	22.5		
244	CANYON CREEK	10030101	17121601	01	10.8		
358	ELKHORN CREEK	10030101	17262401	00	11.3		
366	LITTLE PRICKLY PEAR CREEK	10030101	17422401	01	43.0		
367	LITTLE PRICKLY PEAR CREEK	10030101	17422401	02	13.8		
369	LYONS CREEK	10030101	17443201	01	7.2		
375	MISSOURI RIVER	10030101	17489601	05	40.1		
376	MISSOURI RIVER	10030101	17491201	06	4.2		
377	MISSOURI RIVER	10030101	17491201	07	1.8		
235	SEVEN MILE CREEK	10030101	17651201	00	8.7		
386	SILVER CREEK	10030101	17670401	00	3.4		
279	TENMILE CREEK	10030101	17755201	01	13.7		
280	TENMILE CREEK	10030101	17755201	02	5.6		
391	TROUT CREEK	10030101	17788801	01	11.3		
392	VIRGINIA CREEK	10030101	17803201	01	6.6		
394	WILLOW CREEK	10030101	17844801	01	4.0		
395	WOLF CREEK	10030101	17857601	00	14.8		
726	NORTH FORK BLACKFOOT RIVER	10030102	04396001	02	42.3		
353	DEARBORN RIVER	10030102	17206401	01	75.6		
354	DEARBORN RIVER	10030102	17206401	02	22.8		
357	EAST FORK FALLS CREEK	10030102	17254401	01	7.4		

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
359	FALLS CREEK	10030102	17268801	00	5.8		
361	HIGHWOOD CREEK	10030102	17345601	01	30.6		
362	HIGHWOOD CREEK	10030102	17345601	02	9.2		
257	MIDDLE CREEK	10030102	17463001	00	8.0		
370	MIDDLE FORK DEARBORN RIVER	10030102	17465601	01	16.9		
371	MISSOURI RIVER	10030102	17488001	01	14.2		
372	MISSOURI RIVER	10030102	17488001	02	39.9		
373	MISSOURI RIVER	10030102	17488001	03	42.8		
374	MISSOURI RIVER	10030102	17489601	04	19.8		
380	NORTH FORK SHEEP CREEK	10030102	17545001	01	5.1		
385	SHEEP CREEK	10030102	17657601	00	3.2		
384	SHONKIN CREEK	10030102	17665601	01	19.3		
387	SOUTH FORK DEARBORN RIVER	10030102	17692801	00	16.4		
388	SOUTH FORK SHEEP CREEK	10030102	17703001	01	8.8		
389	SOUTH FORK STICKNEY CREEK	10030102	17706001	01	13.5		
393	WEST FORK FALLS CREEK	10030102	17827201	01	7.9		
236	BEAVER CREEK	10030103	17044801	01	10.6		
237	BENTON GULCH	10030103	17056010	00	14.5		
238	BIG BIRCH CREEK	10030103	17057601	01	20.6		
239	BIG BIRCH CREEK	10030103	17057601	02	6.3		
240	BUTTE CREEK	10030103	17110401	00	15.1		
241	CALF CREEK	10030103	17116801	00	9.0		
242	CAMAS CREEK	10030103	17118401	01	23.3		
243	CAMAS CREEK	10030103	17118401	02	8.8		
245	CROOKED CREEK	10030103	17187201	00	11.6		
246	DEEP CREEK (DRY FORK)	10030103	17209601	00	5.3		
247	EAGLE CREEK	10030103	17248001	00	13.4		
248	EAST FORK HOUND CREEK	10030103	17256001	00	11.6		
249	EIGHT MILE CREEK	10030103	17259201	00	1.4		
251	ELK CREEK	10030103	17260601	00	9.8		
250	ELK CREEK	10030103	17260801	00	10.6		
252	FOUR MILE CREEK	10030103	17281601	02	10.0		
253	FREEMAN CREEK	10030103	17286401	00	16.1		
254	HOUND CREEK	10030103	17360001	00	45.7		
255	LAKE CREEK	10030103	17401601	01	11.7		
256	LITTLE BIRCH CREEK	10030103	17411201	00	15.1		
258	MOOSE CREEK	10030103	17505601	00	14.5		
259	NEVLAND CREEK	10030103	17520001	01	29.6		
260	NEVLAN CREEK	10030103	17520001	02	9.7		
261	NORTH FORK DEEP CREEK	10030103	17528010	00	7.2		
263	NORTH FORK ROCK CREEK	10030103	17544001	00	6.6		
264	NORTH FORK SMITH RIVER	10030103	17547201	01	14.5		
265	NORTH FORK SMITH RIVER	10030103	17547201	02	14.3		
266	NORTH FORK SMITH RIVER	10030103	17547201	03	19.3		
267	ROCK CREEK	10030103	17622401	00	31.4		
268	SHEEP CREEK	10030103	17654401	01	43.6		
269	SHEEP CREEK	10030103	17654401	02	12.9		
270	SMITH RIVER	10030103	17681601	02	21.2		
271	SMITH RIVER	10030103	17683201	03	29.6		

AGE 2 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
272	SMITH RIVER	10030103	17683201	04	73.9		
273	SMITH RIVER	10030103	17683201	05	39.4		
274	SMITH RIVER	10030103	17683201	06	41.0		
275	SOUTH FORK DEEP CREEK	10030103	17694401	00	6.8		
276	SOUTH FORK EIGHT MILE	10030103	17696001	00	7.9		
277	SOUTH FORK SMITH RIVER	10030103	17705601	00	63.7		
278	SPRING CREEK	10030103	17720001	00	16.7		
283	TENDERFOOT CREEK	10030103	17753601	01	13.8		
284	TENDERFOOT CREEK	10030103	17753601	02	27.7		
281	THOMAS CREEK	10030103	17759001	00	4.0		
282	THOMPSON GULCH	10030103	17761601	01	16.3		
286	TROUT CREEK	10030103	17788001	00	19.8		
285	TYRELL CREEK	10030103	17795801	00	7.6		
287	WEST FORK HOUND CREEK	10030103	17828801	00	15.6		
288	WHITETAIL DEER CREEK	10030103	17843201	00	15.3		
289	WOODS GULCH	10030103	17865610	00	10.0		
396	BARR CREEK	10030104	20035001	00	9.7		
397	BEAVER CREEK	10030104	20045001	00	6.4		
398	BIGGS CREEK	10030104	20065001	01	8.4		
399	BIG MUDDY CREEK	10030104	20075001	02	12.9		
400	BLACKTAIL CREEK	10030104	20090001	01	3.5		
403	CUTROCK CREEK	10030104	20150010	01	8.8		
405	DRAIN CANAL NO. 8	10030104	20162801	01	6.8		
407	DRAIN CANAL NO. 12	10030104	20163201	01	3.5		
406	DRAIN CANAL NO. 13	10030104	20163301	01	3.2		
408	DUCK CREEK	10030104	20180001	00	9.7		
409	ELK CREEK	10030104	20200001	00	36.8		
410	FORK CREEK	10030104	20215001	01	10.0		
411	FORD CREEK	10030104	20215001	02	6.6		
412	GATES CREEK	10030104	20235010	01	6.8		
414	LITTLE WILLOW CREEK	10030104	20350001	01	5.1		
416	MILL COULEE	10030104	20377501	00	9.7		
415	MOOSE CREEK	10030104	20390001	01	15.3		
419	NORTH FORK SUN RIVER	10030104	20440001	01	42.5		
420	NORTH FORK WILLOW CREEK	10030104	20445001	01	13.4		
422	ROCK CREEK	10030104	20510001	00	3.2		
423	ROSE CREEK	10030104	20515001	00	6.4		
424	SMITH CREEK	10030104	20550001	00	22.5		
427	SOUTH FORK NORTH FK SUN R	10030104	20560001	00	25.1		
429	SPRING COULEE	10030104	20579001	00	10.9		
431	STRAIGHT CREEK	10030104	20595001	00	8.5		
441	SUN RIVER	10030104	20610001	01	74.3		
433	SUN RIVER	10030104	20610001	02	47.9		
434	SUN RIVER	10030104	20610001	03	4.8		
436	WEST FORK SUN RIVER	10030104	20640001	01	12.4		
438	WILLOW CREEK	10030104	20655001	01	21.2		
439	WOOD CREEK	10030104	20665001	01	11.9		
440	WRONG CREEK	10030104	20675010	01	4.0		
348	BELT CREEK	10030105	17054401	01	35.4		

AGE 3 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
299	BELT CREEK	10030105	17054401	02	43.1		
300	BELT CREEK	10030105	17054401	03	48.8		
351	CARPENTER CREEK	10030105	17124801	00	7.2		
355	DRY FORK BELT CREEK	10030105	17235201	02	4.7		
360	GALENA CREEK	10030105	17290001	00	5.6		
363	JEFFERSON CREEK	10030105	17382401	00	5.5		
364	LITTLE BELT CREEK	10030105	17409601	00	24.9		
365	LITTLE OTTER CREEK	10030105	17420801	00	11.3		
368	LOGGING CREEK	10030105	17430401	00	15.1		
381	OTTER CREEK	10030105	17569601	01	21.3		
382	OTTER CREEK	10030105	17569601	02	17.7		
383	PILGRIM CREEK	10030105	17588801	00	12.7		
390	TILLINGHAST CREEK	10030105	17768001	00	13.5		
291	BIG BADGER CREEK	10030201	14020001	03	12.1		
295	BIRCH CREEK	10030201	14024001	01	60.2		
299	DUPUYER CREEK	10030201	14164001	01	13.5		
300	DUPUYER CREEK	10030201	14164001	02	38.3		
302	ELBOW CREEK	10030201	14186001	01	3.9		
413	HAYWOOD CREEK	10030201	14236010	01	1.6		
262	N FK LITTLE BADGER CR	10030201	14296001	02	2.1		
307	MIDDLE FORK BIRCH CREEK	10030201	14344001	01	4.3		
309	N FK BIG BADGER CREEK	10030201	14376010	01	10.8		
310	N FK BIRCH CREEK	10030201	14380001	00	8.2		
311	N FK DUPUYER CREEK	10030201	14384001	01	5.0		
312	N FK DUPUYER CREEK	10030201	14384001	02	4.8		
314	RAILROAD CREEK	10030201	14452001	01	3.1		
317	SCOFFIN CREEK	10030201	14492001	00	11.3		
318	SHEEP CREEK	10030201	14500001	01	34.3		
319	S FK BIG BADGER CREEK	10030201	14536010	01	6.4		
320	S FK BIRCH CREEK	10030201	14540001	01	11.4		
321	S FK DUPUYER CREEK	10030201	14548001	01	6.4		
322	S FK DUPUYER CREEK	10030201	14548001	02	4.3		
326	S FK TWO MEDICINE RIVER	10030201	14568001	01	24.1		
432	SUMMIT CREEK	10030201	14596001	01	6.4		
331	WHITETAIL CREEK	10030201	14656001	02	5.3		
297	CUTBANK CR	10030202	14108001	01	7.1		
401	BRUCE CREEK	10030205	14048010	01	2.4		
402	COW CREEK	10030205	14100001	01	4.8		
404	DEEP CREEK	10030205	14128001	02	22.5		
305	MCDONALD CREEK	10030205	14336001	00	16.1		
308	MIDDLE FK TETON RIVER	10030205	14352001	01	4.2		
417	NORTH FORK DEEP CREEK	10030205	14383001	01	8.8		
418	NORTH FORK DEEP CREEK	10030205	14383001	02	3.2		
313	N FK TETON RIVER	10030205	14400001	01	29.8		
421	NORTH FORK WILLOW CREEK	10030205	14404001	01	10.9		
426	SOUTH FORK DEEP CREEK	10030205	14546001	01	6.0		
425	SOUTH FORK DEEP CREEK	10030205	14546001	02	2.4		
324	SO FK TETON RIVER	10030205	14564001	01	6.0		
325	SO FK TETON RIVER	10030205	14564001	02	6.4		

AGE 4 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
8	SOUTH FORK WILLOW CREEK	10030205	14569001	01	10.3		
0	SPRING CREEK	10030205	14576001	00	15.4		
327	TETON RIVER	10030205	14600002	01	16.1		
328	TETON RIVER	10030205	14604001	02	48.3		
435	WALDRON CREEK	10030205	14636001	01	2.4		
330	W FK TETON RIVER	10030205	14648001	01	4.7		
437	WILLOW CREEK	10030205	14672001	00	20.9		
758	MISSOURI RIVER	100401	16252002	01	125.7		
378	MISSOURI RIVER	100401	17486402	01	211.9		
356	EAGLE CREEK	10040101	16132001	02	12.4		
346	ARROW CREEK	10040102	16014001	02	15.3		
352	COTTONWOOD CREEK	10040102	16076001	01	12.1		
290	BEAVER CREEK	10040103	16020001	01	11.3		
293	BIG SPRING CREEK	10040103	16030001	02	20.9		
294	BIG SPRING CREEK	10040103	16030001	03	9.7		
292	BIG SPRING CREEK	10040103	16031001	01	20.8		
296	COTTONWOOD CREEK	10040103	16090001	01	15.9		
298	DRY WOLF CREEK	10040103	16126001	01	5.8		
301	E FK BIG SPRING CREEK	10040103	16134001	01	20.0		
303	JUDITH RIVER	10040103	16182001	01	35.2		
304	LOST FK OF MID FK JUDITH R	10040103	16214001	01	14.0		
306	MIDDLE FK JUDITH RIVER	10040103	16236001	00	20.6		
315	ROCK CREEK	10040103	16304001	02	6.0		
316	RUNNING WOLF CREEK	10040103	16316001	01	21.2		
323	S FK JUDITH RIVER	10040103	16352001	01	24.1		
329	WARM SPRINGS CREEK	10040103	16392001	00	28.2		
332	WOLF CREEK	10040103	16420001	02	8.0		
333	YOGO CREEK	10040103	16426001	01	12.6		
748	COW CREEK	10040104	16094001	02	4.8		
760	NORTH FORK COW CREEK	10040104	16268001	00	8.0		
766	SOUTH FORK COW CREEK	10040104	16351001	00	8.2		
335	ALABAUGH CREEK	10040201	18006001	01	5.2		
336	CHECKERBOARD CREEK	10040201	18108001	00	8.1		
337	COTTONWOOD CREEK	10040201	18138001	01	10.4		
338	FLAGSTAFF CREEK	10040201	18258001	00	7.2		
339	NORTH FORK MUSSELSHELL R	10040201	18462001	01	20.9		
340	NORTH FORK MUSSELSHELL R	10040201	18462001	02	6.0		
343	SOUTH FK MUSSELSHELL R	10040201	18567001	01	11.5		
344	SOUTH FORK MUSSELSHELL R	10040201	18567001	02	9.4		
345	SPRING CREEK	10040201	18582001	01	9.4		
334	FLATWILLOW CREEK	10040203	18264001	01	6.2		
341	NORTH FORK FLATWILLOW CR	10040203	18456001	01	11.2		
342	SOUTH FK FLATWILLOW CR	10040203	18561001	01	6.9		
752	MILK RIVER	100500	15272002	00	165.6		
751	MILK RIVER	10050002	15284002	00	43.3		
743	BEAN CREEK	10050004	15024010	02	9.0		
744	BEAVER CREEK	10050004	15028001	00	24.1		
745	BEAVER CREEK	10050004	15032001	01	12.9		
746	BEAVER CREEK	10050004	15032001	02	24.5		

AGE 5 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
747	CLEAR CREEK	10050004	15096001	00	53.1		
750	LITTLE BOXELDER CREEK	10050004	15208001	00	39.1		
754	MILK RIVER	10050004	15276002	01	82.8		
755	MILK RIVER	10050004	15276002	02	215.7		
756	MILK RIVER	10050004	15280001	00	19.3		
379	MUDDY CREEK	10050005	15292010	02	7.9		
763	PEOPLES CREEK	10050009	15324001	02	28.3		
753	MILK RIVER	10050012	15268002	00	165.6		
759	MISSOURI RIVER	100600	16242002	00	264.2		
757	MISSOURI RIVER	10060001	16250001	00	13.7		
764	REDWATER RIVER	10060002	16294010	01	51.0		
765	REDWATER RIVER	10060002	16294010	02	77.2		
749	EAST FORK POPLAR RIVER	10060003	16141502	00	36.4		
761	POPLAR RIVER	10060003	16282002	02	39.8		
762	POPLAR RIVER(MIDDLE FORK)	10060003	16282002	03	54.2		
767	WEST FORK POPLAR RIVER	10060004	16406002	02	95.6		
851	YELLOWSTONE RIVER	100700	22700001	02	17.5		
856	YELLOWSTONE RIVER 07	100700	22705601	02	72.3		
586	YELLOWSTONE RIVER 09	100700	22708401	01	27.7		1
451	BEAR CREEK 01	10070001	22035001	01	11.7		3
452	BEAR CREEK 02	10070001	22035001	02	4.8		2
462	BUFFALO FORK CREEK	10070001	22088201	01	16.1		
463	CREVICE CREEK	10070001	22149801	00	9.7		2
483	EAGLE CREEK	10070001	22198801	00	6.4		
484	EAST FORK BEAR CREEK	10070001	22207201	00	7.2		
509	HELLROARING CREEK	10070001	22306601	01	24.3		
517	LITTLE TRAIL CREEK	10070001	22377010	00	8.0		3
540	NORTH FORK BEAR CREEK	10070001	22435401	00	9.7		3
545	PALMER CREEK	10070001	22457110	00	4.8		2
833	SLOUGH CREEK	10070001	22558601	01	16.4		
834	SODA BUTTE CREEK	10070001	22568401	01	8.0		
443	ALDRIDGE CREEK	10070002	22002110	00	2.4		3
444	ANDERSON CREEK	10070002	22005601	01	2.6	1	1
446	AREA CREEK	10070002	22013310	00	8.0		3
447	ARMSTRONG SPRING CREEK	10070002	22014001	00	1.1	2	2
449	BASSETT CREEK	10070002	22024510	00	7.2		3
453	BEAVER CREEK	10070002	22039910	00	4.8		3
455	BIG CREEK 01	10070002	22047601	01	3.9		2
456	BIG CREEK 02	10070002	22047601	02	10.3		1
457	BIG CREEK 03	10070002	22047601	03	9.7		1
791	BIG TIMBER CREEK	10070002	22051801	01	17.7		
792	BIG TIMBER CREEK	10070002	22051801	02	8.9		
793	BIG TIMBER CREEK	10070002	22051801	03	16.1		
458	BILLMAN CREEK 01	10070002	22053201	01	17.4		3
131	BLACKTAIL CREEK	10070002	22063201	00	2.4		
100	BLAKELY CREEK	10070002	22065801	00	4.3		
098	EAST CHIPPY CREEK	10070002	22072801	00	5.0		
105	UN TRIB BOULDER RIVER SEC1	10070002	22074201	99	3.6		
088	BOULDER RIVER SEC. 2	10070002	22075601	01	14.4		

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MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
74	UN TRIB BOULDER RIVER SEC2	10070002	22075601	93	3.0		
103	UN TRIB BOULDER RIVER SEC2	10070002	22075601	94	1.3		
102	UN TRIB BOULDER RIVER SEC2	10070002	22075601	95	2.4		
099	UN TRIB BOULDER RIVER SEC2	10070002	22075601	96	3.2		
091	UN TRIB BOULDER RIVER SEC2	10070002	22075601	97	2.1		
090	UN TRIB BOULDER RIVER SEC2	10070002	22075601	98	2.0		
089	BAKER DRAW SEC 2	10070002	22075601	99	2.0		
796	BRIDGER CREEK	10070002	22079801	01	7.2		
797	BRIDGER CREEK	10070002	22079801	02	10.8		
117	BROWNLEE CREEK	10070002	22085001	00	4.0		
129	BURNT GULCH	10070002	22091501	00	4.0		
114	CANYON CREEK	10070002	22098001	00	4.0		
466	CEDAR CREEK	10070002	22107801	01	5.6		3
467	CINNABAR CREEK	10070002	22113401	01	6.3		3
469	COKE CREEK	10070002	22123901	01	4.8		3
092	CONTACT CREEK	10070002	22129001	00	4.5		
474	COTTONWOOD CREEK	10070002	22135801	00	9.7		
470	COTTONWOOD CREEK	10070002	22136510	00	4.8		
478	DEEP CREEK 01	10070002	22169401	01	1.6		
479	DEEP CREEK 02	10070002	22169401	02	3.5		
480	DRY CREEK	10070002	22184810	00	8.0		3
481	DRY CREEK	10070002	22186910	00	5.6		3
130	DRY FORK CREEK	10070002	22190401	00	4.8		
132	HUBBLE & SNOWSLIDE GULCHES	10070002	22190401	98	1.6		
133	UN TRIB DRY FORK CREEK	10070002	22190401	99	.1		
591	DUGOUT CREEK	10070002	22197401	00	12.6		
106	EAST BOULDER RIVER	10070002	22200201	01	10.0		
107	EAST BOULDER RIVER	10070002	22200201	02	7.6		
108	EAST BOULDER RIVER	10070002	22200201	03	8.0		
141	UN TRIB EAST BOULDER RIVER	10070002	22200201	76	2.8		
140	UN TRIB EAST BOULDER RIVER	10070002	22200201	77	.8		
139	UN TRIB EAST BOULDER RIVER	10070002	22200201	78	1.6		
138	UN TRIB EAST BOULDER RIVER	10070002	22200201	79	.7		
137	UN TRIB EAST BOULDER RIVER	10070002	22200201	80	1.0		
136	UN TRIB EAST BOULDER RIVER	10070002	22200201	81	1.6		
135	UN TRIB EAST BOULDER RIVER	10070002	22200201	82	4.0		
134	UN TRIB EAST BOULDER RIVER	10070002	22200201	83	2.4		
128	UN TRIB EAST BOULDER RIVER	10070002	22200201	84	2.4		
127	UN TRIB EAST BOULDER RIVER	10070002	22200201	85	2.0		
126	UN TRIB EAST BOULDER RIVER	10070002	22200201	86	2.4		
125	UN TRIB EAST BOULDER RIVER	10070002	22200201	87	1.4		
124	UN TRIB EAST BOULDER RIVER	10070002	22200201	88	1.6		
123	UN TRIB EAST BOULDER RIVER	10070002	22200201	89	1.4		
122	UN TRIB EAST BOULDER RIVER	10070002	22200201	90	1.4		
121	UN TRIB EAST BOULDER RIVER	10070002	22200201	91	2.0		
119	UN TRIB EAST BOULDER RIVER	10070002	22200201	92	.8		
118	UN TRIB EAST BOULDER RIVER	10070002	22200201	93	2.0		
116	UN TRIB EAST BOULDER RIVER	10070002	22200201	94	.8		
115	SPRING CREEKS	10070002	22200201	95	.7		

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MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
113	LEWIS GULCH	10070002	22200201	96	4.5		
112	WRIGHT GULCH	10070002	22200201	97	4.0		
111	UN TRIB EAST BOULDER RIVER	10070002	22200201	98	4.5		
109	UN TRIB EAST BOULDER RIVER	10070002	22200201	99	1.0		
485	EAST FORK MILL CREEK	10070002	22212801	00	4.7		
487	EIGHT MILE CREEK 01	10070002	22226801	01	6.4		3
488	EIGHT MILE CREEK 02	10070002	22226801	02	7.9		2
489	ELBOW CREEK	10070002	22228201	00	20.9		3
490	ELDRIDGE CREEK	10070002	22230301	00	4.8		
809	ELK CREEK	10070002	22235201	00	7.2		
492	EMIGRANT CREEK 01	10070002	22236601	01	5.6		
493	EMIGRANT CREEK 02	10070002	22236601	02	4.2		
494	EMIGRANT CREEK 03	10070002	22236601	03	4.8		
495	EMIGRANT SPRING CREEK	10070002	22236801	00	1.6		
094	FALLS CREEK	10070002	22241501	01	1.6		
498	FERRY CREEK	10070002	22245701	00	4.8		3
500	FLESHMAN CREEK 01	10070002	22256201	01	9.5		2
501	FLESHMAN CREEK 02	10070002	22256201	02	8.9		2
120	FORGE CREEK	10070002	22259801	00	3.5		
503	FRIDLEY CREEK 01	10070002	22267401	01	5.6		2
504	FRIDLEY CREEK 02	10070002	22267401	02	5.0		2
093	FRIZE TO DEATH CREEK	10070002	22268101	00	6.5		
110	FULLER GULCH	10070002	22268801	00	4.5		
506	GOLDMEYER CREEK	10070002	22273610	00	6.4		
101	GRAHAM CREEK	10070002	22277201	00	5.4		
095	GREAT FALLS CREEK	10070002	22284601	01	1.8		
510	HORSE CREEK	10070002	22319201	00	12.9		3
513	HYALITE CREEK	10070002	22327601	00	8.0		3
514	LEWIS CREEK	10070002	22358401	00	7.7		3
515	LION CREEK	10070002	22364710	00	3.6		3
516	LITTLE MISSION CREEK	10070002	22372401	01	6.1		2
818	LOWER DEER CREEK	10070002	22386401	01	23.7		
819	LOWER DEER CREEK	10070002	22386401	02	24.8		
525	MCDONALD SPRING CREEK	10070002	22393001	00	3.4		2
821	MIDDLE FORK SWEETGRASS CR.	10070002	22410201	00	4.5		
530	MILL CREEK 01	10070002	22417201	01	6.4		
531	MILL CREEK 02	10070002	22417201	02	21.6		3
527	MILL CREEK	10070002	22418601	00	6.4		3
096	MILLER CREEK	10070002	22422801	00	4.3		
532	MISSION CREEK 01	10070002	22424201	01	17.2		2
533	MISSION CREEK 02	10070002	22424201	02	6.3		2
535	MOL HERON CREEK 01	10070002	22427001	01	8.4		2
534	MOL HERON CREEK 02	10070002	22427001	02	4.2		2
538	NELSON SPRING CREEK	10070002	22430501	00	4.0		1
542	NORTH FORK DEEP CREEK	10070002	22438201	00	11.3		
546	PINE CREEK 01	10070002	22466201	01	4.8		3
547	PINE CREEK 02	10070002	22466201	02	6.1		3
548	PINE CREEK (WEST)	10070002	22466301	01	5.8		3
554	ROCK CREEK	10070002	22498401	01	11.7		2

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MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
557	SHORTY CREEK & CRYSTAL SP.	10070002	22539001	00	3.4		
559	SIXMILE CREEK 01	10070002	22550201	01	4.8		4
560	SIXMILE CREEK 02	10070002	22550201	02	3.4		3
561	SIXMILE CREEK 03	10070002	22550201	03	4.7		3
565	SOUTH FORK DEEP CREEK	10070002	22572601	00	6.4		3
567	SOUTH FORK PINE CREEK	10070002	22577501	00	7.2		3
176	SQUAW GULCH	10070002	22607610	00	6.4		
570	STRICKLAND CREEK	10070002	22615310	00	11.3		4
571	SUCE CREEK 01	10070002	22616001	01	2.4		4
572	SUCE CREEK 02	10070002	22616001	02	4.3		3
573	SUCE CREEK 03	10070002	22616001	03	1.0		3
837	SWAMP CREEK	10070002	22621601	00	23.3		
574	TOM MINER CREEK 01	10070002	22632801	01	10.9		2
575	TOM MINER CREEK 02	10070002	22632801	02	6.4		2
576	TRAIL CREEK 01	10070002	22634201	01	17.7		4
577	TRAIL CREEK 02	10070002	22634201	02	34.6		2
838	UPPER DEER CREEK	10070002	22645401	01	22.5		
839	UPPER DEER CREEK	10070002	22645401	02	5.8		
840	WEST BOULDER RIVER	10070002	22655201	01	22.9		
841	WEST BOULDER RIVER	10070002	22655201	02	19.5		
579	WEST FORK MILL CREEK	10070002	22663601	00	5.0		3
843	WEST FORK UPPER DEER CREEK	10070002	22670601	00	19.3		
582	YELLOWSTONE RIVER 07	10070002	22705601	01	23.5		1
584	YELLOWSTONE RIVER 08-01	10070002	22707001	01	52.0		1
585	YELLOWSTONE RIVER 08-02	10070002	22707001	02	31.5		1
442	ADAIR CREEK	10070003	22001401	01	6.0	3	3
445	ANTELOPE CREEK	10070003	22008401	00	12.9	4	4
448	BANGTAIL CREEK	10070003	22018201	00	16.4		3
450	BEAR CREEK	10070003	22033601	00	8.0		2
454	BENNETT CREEK	10070003	22043410	00	7.2		3
459	BRACKETT CREEK 01	10070003	22078401	01	23.5		2
460	BRACKETT CREEK 02	10070003	22078401	02	9.3		2
461	BUCK CREEK	10070003	22086801	00	6.4		3
592	BULLRUN CREEK	10070003	22090601	01	1.6		
464	CACHE CREEK	10070003	22093801	00	12.1		
465	CANYON CREEK	10070003	22095201	00	16.9		3
468	CLEAR CREEK	10070003	22121801	00	4.0		3
471	COTTONWOOD CREEK	10070003	22137201	00	16.1		4
472	COTTONWOOD CREEK 01	10070003	22138601	01	4.8		4
473	COTTONWOOD CREEK 02	10070003	22138601	02	17.1		3
475	CRAZY HEAD CREEK	10070003	22148410	00	12.9		3
476	DAISY DEAN CREEK	10070003	22161001	01	9.0		3
477	DEEP CREEK	10070003	22168001	00	8.0		2
482	DRY CREEK	10070003	22187610	00	9.3		3
486	EAST FORK ROCK CREEK	10070003	22215601	00	3.2		
537	N&S FORKS EIGHTMILE CREEK	10070003	22226801	99	11.3		2
491	ELK CREEK	10070003	22232401	01	9.5		
496	FAIRY LAKE CREEK	10070003	22239401	00	11.3		
497	FALLS CREEK	10070003	22240801	00	19.3		

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MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
409	FLATHEAD CREEK	10070003	22254801	00	19.2		2
2	FOX CREEK	10070003	22263201	00	4.8		
505	GOAT CREEK	10070003	22273001	00	2.9		3
507	GREEN CANYON CREEK	10070003	22285310	00	4.8		3
508	HAMMOND CREEK	10070003	22296801	00	6.4		3
512	HORSE CREEK	10070003	22318510	00	3.2		3
511	HORSE CREEK	10070003	22320601	01	19.5		2
590	KAY CREEK	10070003	22342001	00	5.6		
519	LODGEPOLE CREEK (UPPER)	10070003	22379401	00	4.5		3
518	LODGEPOLE CREEK (LOWER)	10070003	22379401	01	3.9		3
588	MEADOW CREEK	10070003	22393401	00	5.6		2
528	MID FORK HORSE CREEK	10070003	22407401	00	2.8		2
526	MILES CREEK	10070003	22415801	00	11.3		3
529	MILL CREEK	10070003	22420001	00	9.7		3
536	MUDDY CREEK	10070003	22428401	00	11.3		4
539	NIXON CREEK	10070003	22431910	00	4.8		3
541	NORTH FORK BRACKETT CREEK	10070003	22436101	00	3.6		
543	NORTH FORK ELK CREEK	10070003	22439601	00	12.9		3
544	NORTH FORK FLATHEAD CREEK	10070003	22441001	00	4.0		2
549	PORCUPINE CREEK	10070003	22474601	01	9.3		
550	POTTER CREEK	10070003	22476010	00	20.9		4
551	ROCK CREEK 01	10070003	22499801	01	7.2		3
552	ROCK CREEK 02	10070003	22499801	02	11.6		3
553	ROCK CREEK 03	10070003	22499801	03	3.7		2
589	SCOFIELD CREEK	10070003	22518001	00	3.9		3
555	SERRETT CREEK	10070003	22522201	00	3.2		3
556	SHIELDS RIVER 01	10070003	22533401	01	25.4		3
557	SHIELDS RIVER 02	10070003	22534801	02	21.6		3
558	SHIELDS RIVER 03	10070003	22536201	03	45.9		3
562	SKUNK CREEK	10070003	22551601	00	4.8		3
563	SMITH CREEK 01	10070003	22562801	01	4.0		2
564	SMITH CREEK 02	10070003	22562801	02	3.4		3
566	SOUTH FORK ELK CREEK	10070003	22574010	00	12.9		3
568	SOUTH FORK SHIELDS RIVER	10070003	22579601	00	11.3		3
569	SPRING CREEK & TRIBS	10070003	22594001	00	8.0		
578	TURKEY CREEK	10070003	22641210	00	3.2		3
580	WILLOW CREEK 01	10070003	22690201	01	12.2		3
581	WILLOW CREEK 02	10070003	22690201	02	1.6		3
850	YELLOWSTONE RIVER 03	10070004	22700001	01	35.1		
853	YELLOWSTONE RIVER 04	10070004	22701401	00	17.1		
854	YELLOWSTONE RIVER 05	10070004	22702801	00	32.3		
855	YELLOWSTONE RIVER	10070004	22704201	00	30.9		
049	ARMSTRONG CREEK	10070005	22013801	00	2.		
162	BAD CANYON CREEK	10070005	22016801	01	6.4		
788	BAD CANYON CREEK	10070005	22016801	01	9.3		
170	WINGE DRAW	10070005	22016801	92	.4		
168	UN TRIB BAD CANYON CREEK	10070005	22016801	93	.7		
167	GRIFFIN DRAW	10070005	22016801	94	.8		
166	PORCUPINE DRAW	10070005	22016801	95	.8		

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MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
5	OLIVER DRAW	10070005	22016801	96	3.2		
4	MCKINSEY DRAW	10070005	22016801	97	2.2		
161	BUFFALO SKULL DRAW	10070005	22016801	98	1.6		
160	WEST TRAIL DRAW	10070005	22016801	99	2.4		
790	BEAVER CREEK	10070005	22039201	00	19.3		
060	BLACK CANYON	10070005	22060801	00	4.5		
799	BUTCHER CREEK & FORKS	10070005	22092401	00	45.1		
181	CASTLE CREEK	10070005	22102201	01	9.8		
173	UN TRIB CASTLE CREEK	10070005	22102201	98	1.6		
172	SHEEP CREEK	10070005	22102201	99	4.5		
193	CATHEDRAL CREEK	10070005	22105001	00	4.6		
059	COLD CREEK	10070005	22124401	00	3.5		
177	DEAD INDIAN CREEK	10070005	22165801	00	4.8		
082	EAST FORK FIDDLER CREEK	10070005	22204401	01	2.4		
081	UN TRIB EAST FK FIDDLER CR	10070005	22204401	99	2.0		
085	EAST FISHTAIL CREEK	10070005	22205801	01	16.		
056	EAST FORK BUTCHER CREEK	10070005	22208601	01	1.0		
042	EAST ROSEBUD CREEK	10070005	22225401	01	.5		
054	UN TRIB E ROSEBUD CR	10070005	22225401	90	3.2		
053	UN TRIB E FK ROSEBUD CR	10070005	22225401	91	.9		
052	UN TRIB E ROSEBUD CR	10070005	22225401	92	1.6		
050	UN TRIB E ROSEBUD CR	10070005	22225401	93	.1		
048	UN TRIB E ROSEBUD CR	10070005	22225401	94	.3		
047	UN TRIB E ROSEBUD CR	10070005	22225401	95	3.0		
046	UN TRIB E ROSEBUD CR	10070005	22225401	96	.9		
044	UN TRIB E ROSEBUD CR 4AR2	10070005	22225401	97	1.6		
043	UN TRIB E ROSEBUD CR 4AR1	10070005	22225401	98	1.1		
045	UN TRIB E ROSEBUD CR	10070005	22225401	99	2.4		
084	ELBOW CREEK	10070005	22228801	01	3.4		
068	FISH CREEK	10070005	22247801	00	.6		
204	FLUME CREEK	10070005	22258301	00	6.4		
810	GROVE CREEK	10070005	22289810	00	12.9		
055	HELLROARING CREEK	10070005	22303801	00	8.0		
196	HORSEMAN CREEK	10070005	22322010	01	1.6		
069	HUCKLEBERRY CREEK	10070005	22324801	01	.8		
194	INITIAL CREEK	10070005	22334601	00	2.9		
186	IRON CREEK	10070005	22336001	00	9.3		
813	JACK STRAW(STONE) CREEK	10070005	22338101	00	16.1		
814	JOE HILL CREEK	10070005	22338802	00	18.3		
190	LIGHTNING CREEK	10070005	22359801	01	.8		
080	LINE CREEK	10070005	22364401	00	5.8		
211	LITTLE ROCKY CREEK	10070005	22375201	01	9.3		
817	LODGEPOLE CREEK	10070005	22380801	00	8.7		
175	LODGEPOLE CREEK	10070005	22380801	01	3.2		
174	UN TRIB LODGEPOLE CREEK	10070005	22380801	99	2.2		
820	MEADOW CREEK	10070005	22394801	00	6.4		
087	MEADOW CREEK	10070005	22394801	01	2.4		
178	MEYERS CREEK	10070005	22401801	00	7.2		
083	MIDDLE FORK FIDDLER CREEK	10070005	22404601	01	4.8		

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MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
192	MIDNIGHT CREEK	10070005	22414410	00	9.7		
7	MORRIS CREEK	10070005	22427501	01	2.3		
198	MOUNTAIN VIEW CREEK	10070005	22428001	00	3.0		
207	NYE CREEK	10070005	22450801	00	5.6		
180	PASS CREEK	10070005	22458001	00	1.6		
182	PICKET PIN CREEK	10070005	22464801	01	11.2		
184	BEAR PEN CREEK	10070005	22464801	99	1.9		
209	PRAIRIE CREEK	10070005	22478810	01	3.8		
192	SADERBALM CREEK	10070005	22510501	01	1.6		
197	SILVER CREEK	10070005	22541101	00	1.6		
169	SMITH COULEE	10070005	22561501	00	4.8		
051	SPREAD CREEK	10070005	22592201	00	4.		
836	SPRING CREEK	10070005	22594301	00	14.5		
212	DALE CREEK	10070005	22610401	98	1.7		
171	ROBINSON DRAW	10070005	22610401	99	4.0		
210	UN TRIB STILLWATER RIVER	10070005	22610401	99	1.1		
179	STILLWATER RIVER	10070005	22611801	01	8.8		
208	BURNT CREEK	10070005	22611801	94	3.3		
206	SOUTH NYE CREEK	10070005	22611801	95	1.0		
205	UN TRIB STILLWATER RIVER	10070005	22611801	96	.9		
203	UN TRIB STILLWATER RIVER	10070005	22611801	97	1.4		
201	UN TRIB STILLWATER RIVER	10070005	22611801	98	3.0		
200	UN TRIB STILLWATER RIVER	10070005	22611801	99	2.0		
183	SWAMP CREEK	10070005	22621801	00	.6		
163	TEPEE CREEK	10070005	22626201	00	2.4		
159	TRAIL DRAW	10070005	22635701	00	.8		
153	TROUT CREEK	10070005	22638401	01	8.8		
158	WILDCAT DRAW	10070005	22638401	95	.8		
157	UN TRIB TROUT CREEK	10070005	22638401	96	1.2		
156	MENDENHALL DRAW	10070005	22638401	97	2.4		
155	DRY GULCH	10070005	22638401	98	2.0		
154	UN TRIB TROUT CREEK	10070005	22638401	99	2.0		
191	TUMBLE CREEK	10070005	22639801	01	.8		
849	UN TRIB WEST ROSEBUD CREEK	10070005	22645001	00	11.5		
199	VERDIGRIS CREEK	10070005	22649001	00	4.0		
086	WEST FISHTAIL CREEK	10070005	22658001	01	10.4		
195	UN TRIB W FK STILLWATER R	10070005	22666401	99	2.5		
185	WEST FORK STILLWATER RIVER	10070005	22667801	01	12.7		
189	UN TRIB W FK STILLWATER R.	10070005	22667801	97	3.2		
188	UN TRIB W FK STILLWATER R.	10070005	22667801	98	2.5		
187	CRESCENT CREEK	10070005	22667801	99	3.0		
058	WEST ROSEBUD CREEK	10070005	22680401	01	17.3		
845	WEST ROSEBUD CREEK	10070005	22680401	01	29.3		
846	WEST ROSEBUD CREEK	10070005	22680401	02	12.9		
079	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	83	3.0		
078	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	84	.8		
077	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	85	5.1		
076	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	86	2.0		
075	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	87	2.0		

AGE 12 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
074	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	88	2.3		
073	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	89	1.1		
072	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	90	5.6		
071	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	91	1.6		
070	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	92	4.0		
067	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	93	1.6		
066	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	94	.6		
065	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	95	2.6		
064	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	96	.1		
063	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	97	1.6		
062	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	98	2.5		
061	UN TRIB WEST ROSEBUD CREEK	10070005	22680401	99	2.0		
202	WOODBINE CREEK	10070005	22694401	01	2.0		
021	BASIN CREEK	10070006	22023801	01	.8		
022	BASIN CREEK	10070006	22023801	02	.7		
023	BASIN CREEK	10070006	22023801	03	.1		
024	BASIN CREEK	10070006	22023801	04	.5		
025	BASIN CREEK	10070006	22023801	05	.4		
026	BASIN CREEK	10070006	22023801	06	.2		
789	BEAR CREEK	10070006	22029401	00	30.4		
010	BLACKTAIL CREEK	10070006	22063001	00	2.4		
794	BLUEWATER CREEK	10070006	22071401	01	14.5		
795	BLUEWATER CREEK	10070006	22071401	02	6.4		
798	BROADWATER RIVER	10070006	22082601	01	7.2		
036	BURNT FORK CREEK	10070006	22091001	01	5.6		
011	CASCADE CREEK	10070006	22100101	00	2.4		
801	CLARKS FORK YELLOWSTONE R.	10070006	22116202	00	65.3		
803	CLARKS FORK YELLOWSTONE R.	10070006	22117601	00	46.2		
145	MILL DRAW	10070006	22117601	99	3.2		
802	CLARKS FORK YELLOWSTONE R.	10070006	22119001	01	5.0		
804	CLEAR CREEK	10070006	22120401	00	14.2		
805	COLE CREEK	10070006	22126001	01	11.3		
032	COLE CREEK	10070006	22126001	01	1.6		
807	DRY CREEK & FORKS	10070006	22183410	00	35.4		
008	DUTCH CREEK	10070006	22197501	00	2.4		
037	E. FK. WEST RED LODGE CR.	10070006	22219201	01	5.3		
808	ELBOW CREEK	10070006	22229610	00	57.9		
787	FISHER CREEK	10070006	22248401	00	6.4		
142	N. AND S. FORK OF GOLD CR.	10070006	22273301	99	6.4		
033	HARNEY CREEK	10070006	22299601	01	3.2		
811	HARNEY CREEK	10070006	22299601	01	12.4		
812	HOGAN CREEK	10070006	22313601	01	14.5		
035	HOGAN CREEK	10070006	22313601	01	4.8		
027	INGLES CREEK	10070006	22333201	00	5.0		
815	LADY OF THE LAKE CREEK	10070006	22344401	00	2.7		
816	LAKE FORK ROCK CREEK	10070006	22347201	00	17.7		
151	LINE CREEK	10070006	22364301	01	.8		
152	LINE CREEK	10070006	22364301	03	2.5		
150	N. FORK OF LINE CREEK	10070006	22364301	99	5.6		

AGE 13 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
66	NICHOLS CREEK	10070006	22431201	01	.8		
7	NICHOLS CREEK	10070006	22431201	02	2.4		
148	NORTH LINE CREEK	10070006	22449801	01	3.2		
149	NORTH LINE CREEK	10070006	22449801	02	4.0		
013	PORCUPINE CREEK	10070006	22474701	00	.5		
823	POWERS CREEK	10070006	22477401	00	8.9		
041	UN TRIB POWERS CREEK	10070006	22477401	99	.8		
826	RED LODGE CREEK	10070006	22488601	01	15.8		
825	RED LODGE CREEK	10070006	22488601	02	16.6		
146	ROBINSON DRAW	10070006	22491401	01	3.7		
147	ROBINSON DRAW	10070006	22491401	02	1.6		
827	ROCK CREEK	10070006	22492801	01	27.8		
830	ROCK CREEK	10070006	22494201	00	27.4		
828	ROCK CREEK 02	10070006	22494201	01	13.7		
829	ROCK CREEK	10070006	22494201	02	21.1		
143	RUBY CREEK	10070006	22505410	01	1.2		
144	RUBY CREEK	10070006	22505410	02	1.6		
012	SENIA CREEK	10070006	22521510	00	1.6		
028	SILVER RUN CREEK	10070006	22543201	01	3.2		
029	SILVER RUN CREEK	10070006	22543201	02	2.0		
857	SPRING CREEK	10070006	22606201	00	9.7		
835	THIEL CREEK	10070006	22627201	01	.		
034	THEIL CREEK	10070006	22627201	01	1.4		
015	TIMBERLINE CREEK	10070006	22630001	01	4.8		
016	TIMBERLINE CREEK	10070006	22630001	02	1.6		
009	WASHOE CREEK	10070006	22653801	00	3.2		
001	WEST FORK ROCK CREEK	10070006	22665001	01	19.0		
842	WEST FORK ROCK CREEK	10070006	22665001	01	3.2		
031	TOWNE GULCH	10070006	22665001	93	2.4		
030	UN TRIB W FK ROCK CR	10070006	22665001	94	1.5		
020	UN TRIB W FK ROCK CR #15.5	10070006	22665001	95	2.0		
019	UN TRIB W FK ROCK CR	10070006	22665001	96	.8		
018	UN TRIB W FK ROCK CR #14	10070006	22665001	97	2.0		
017	UN TRIB W FK ROCK CR #13	10070006	22665001	98	3.0		
014	UN TRIB W FK ROCK CR #10	10070006	22665001	99	1.2		
844	WEST RED LODGE CREEK	10070006	22679001	00	29.3		
038	WEST RED LODGE CREEK	10070006	22679001	01	2.4		
040	WEST RED LODGE CREEK	10070006	22679001	02	7.0		
039	E. W. RED LODGE CREEK	10070006	22679001	99	5.1		
002	WILLOW CREEK	10070006	22691601	01	4.0		
847	WILLOW CREEK	10070006	22691601	01	23.7		
003	WILLOW CREEK	10070006	22691601	02	.8		
004	WILLOW CREEK	10070006	22691601	03	1.1		
005	SOUTH BRANCH WILLOW CREEK	10070006	22691601	99	2.4		
852	YELLOWSTONE RIVER	10070007	22700001	03	89.8		
824	PRYOR CREEK	10070008	22480201	01	12.0		
806	CROOKED CREEK	10080010	22151201	01	15.4		
831	SAGE CREEK	10080014	22511001	01	10.9		
832	SAGE CREEK	10080014	22511001	02	6.9		

AGE 14 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
777	TONGUE RIVER 02	100901	21120001	00	163.8		
779	HANGING WOMAN CREEK	10090101	21040010	00	71.9		
778	TONGUE RIVER 03	10090101	21125001	00	22.2		
772	OTTER CREEK	10090102	21072501	01	115.1		
774	PUMPKIN CREEK	10090102	21080002	01	31.4		
776	TONGUE RIVER 01	10090102	21115002	00	140.5		
773	POWDER RIVER	100902	21075002	00	350.0		
770	LITTLE POWDER RIVER	10090208	21055002	00	106.9		
768	MIZPAH CREEK	10090210	21067502	00	83.2		
775	SUNDAY CREEK	10100001	21102510	00	23.3		
781	YELLOWSTONE RIVER-02-01	10100001	21140002	01	141.5		
782	YELLOWSTONE RIVER-02-02	10100001	21140002	02	93.7		
783	ROSEBUD CREEK	10100003	22502810	00	306.0		
780	YELLOWSTONE RIVER 01-01	10100004	21135002	01	88.0		
779	YELLOWSTONE RIVER 01-02	10100004	21135002	02	126.2		
771	O FALLON CREEK	10100005	21070002	01	93.8		
784	LITTLE MISSOURI RIVER	10110201	12030002	00	110.1		
785	BOX ELDER CREEK	10110202	12020002	00	201.3		
786	BEAVER CREEK	10110204	12010002	00	85.6		
675	KOOTENAI RIVER	170101	11350001	01	32.8		
671	BIG CREEK	17010101	11042001	00	11.7		
602	CANYON CREEK	17010101	11092010	01	2.4		
603	CANYON CREEK	17010101	11092010	02	10.5		
608	CRIPPLE HORSE CREEK	17010101	11152001	01	2.4		
609	CRIPPLE HORSE CREEK	17010101	11152001	02	15.9		
611	FIVE MILE CREEK	17010101	11234001	01	8.4		
673	FORTINE CREEK	17010101	11246001	01	37.7		
668	FORTINE CREEK	17010101	11246001	02	7.4		
674	GRAVE CREEK	17010101	11272001	00	27.8		
669	KOOTENAI RIVER	17010101	11350001	02	43.1		
621	LIBBY CREEK	17010101	11366001	01	20.8		
676	NORTH FORK BIG CREEK	17010101	11466010	00	10.9		
667	O'BRIAN CREEK	17010101	11482001	01	14.6		
677	PINKHAM CREEK	17010101	11514001	01	9.7		
678	PINKHAM CREEK	17010101	11514001	02	24.1		
635	PIPE CREEK	17010101	11516001	01	25.3		
636	PIPE CREEK	17010101	11516001	02	18.7		
680	ST CLAIR CREEK	17010101	11572001	01	1.8		
681	ST CLAIR CREEK	17010101	11572001	02	11.6		
666	SOUTH FORK BIG CREEK	17010101	11622001	01	31.4		
683	TOBACCO RIVER	17010101	11692001	00	34.1		
686	YOUNG CREEK	17010101	11778001	01	10.0		
685	YOUNG CREEK	17010101	11778001	02	4.8		
679	SOUTH FORK YOUNG CREEK	17010101	11778001	99	4.0		
612	FISHER RIVER	17010102	11232001	01	18.0		
613	FISHER RIVER	17010102	11232001	02	51.8		
639	SILVER BUTTE CREEK	17010102	11597901	00	12.6		
662	WOLF CREEK	17010102	11768001	01	25.3		
663	WOLF CREEK	17010102	11768001	02	33.8		

AGE 15 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
701	CLARK FORK RIVER	170102	06112101	00	23.9		
707	MILL CREEK	17010201	05481610	00	29.0		
702	CLARK FORK RIVER	17010201	06114001	01	61.2		
704	DEMPSEY CREEK	17010201	06161501	00	19.3		
724	NORTH GOLD CREEK	17010201	06258401	99	.9		
712	LITTLE BLACKFOOT RIVER	17010201	06359101	00	30.4		
715	LOST CREEK	17010201	06370501	01	24.1		
716	LOST CREEK	17010201	06370501	02	11.3		
711	LITTLE BLACKFOOT RIVER	17010201	06377201	00	37.2		
730	RACETRACK CREEK	17010201	06507301	01	1.5		
740	WARM SPRINGS CREEK	17010201	06685901	00	45.7		
695	BOULDER CREEK	17010202	06064601	00	17.7		
705	DOUGLAS CREEK	17010202	06172901	01	1.5		
709	FLINT CREEK	17010202	06224201	01	42.0		
710	FLINT CREEK	17010202	06224201	02	17.5		
733	ROCK CREEK	17010202	06526301	00	47.0		
732	ROCK CREEK	17010202	06528201	00	33.3		
800	CAYUSE CREEK	17010202	22106401	00	20.1		
848	SWEETGRASS CREEK	17010202	22623001	02	53.1		
691	BEAVER CREEK	17010203	04039001	01	5.6		
694	BLACKFOOT RIVER	17010203	04060001	00	52.9		
693	BLACKFOOT RIVER	17010203	04063001	00	69.2		
692	BLACKFOOT RIVER	17010203	04066001	00	47.5		
697	CLEARWATER RIVER	17010203	04129001	01	27.0		
698	CLEARWATER RIVER	17010203	04129001	02	9.7		
703	COTTONWOOD CREEK	17010203	04147001	00	19.3		
718	MONTURE CREEK	17010203	04369001	00	36.2		
719	MORRELL CREEK	17010203	04375001	01	19.3		
720	NEVADA CREEK	17010203	04390001	01	35.4		
721	NEVADA CREEK	17010203	04390001	02	24.6		
725	NORTH FORK BLACKFOOT RIVER	17010203	04396001	01	19.3		
727	PLACID CREEK (OWL CREEK)	17010203	04423001	01	5.5		
728	PLACID CREEK	17010203	04423001	02	13.8		
729	POORMAN CREEK	17010203	04426001	01	7.2		
699	CLARK FORK RIVER	17010204	05145601	01	76.3		
700	CLARK FORK RIVER	17010204	05145601	02	99.6		
708	FISH CREEK	17010204	05276801	01	23.3		
713	LITTLE JOE CREEK	17010204	05409601	01	3.7		
722	NINEMILE CREEK	17010204	05516801	01	39.8		
723	NORTH FORK LITTLE JOE CR.	17010204	05524801	01	9.7		
737	ST. REGIS RIVER	17010204	05606401	01	24.5		
738	ST. REGIS RIVER	17010204	05606401	02	29.1		
736	SOUTH FORK LITTLE JOE CR.	17010204	05667201	01	8.7		
739	TWELVEMILE CREEK	17010204	05748801	00	17.4		
731	RATTLESNAKE CREEK	17010204	06514901	00	32.5		
689	BITTERROOT RIVER	17010205	03047501	01	36.9		
690	BITTERROOT RIVER	17010205	03047501	02	27.4		
688	BITTERROOT RIVER	17010205	03050001	01	66.6		
696	BURNT FORK CREEK	17010205	03085001	01	25.6		

AGE 16 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
706	EAST FORK BITTERROOT RIVER	17010205	03195001	01	11.4		
7	EAST FORK BITTERROOT RIVER	17010205	03195001	02	59.5		
714	LOLO CREEK	17010205	03347501	01	45.3		
734	SKALKAHO CREEK	17010205	03547501	01	12.9		
735	SKALKAHO CREEK	17010205	03547501	02	22.5		
741	WEST FORK BITTERROOT RIVER	17010205	03680001	01	31.5		
742	WEST FORK BITTERROOT RIVER	17010205	03680001	02	34.8		
598	BIG CREEK	17010206	08068001	00	22.8		
606	COAL CREEK	17010206	08162001	00	24.8		
631	MOOSE CREEK	17010206	08488001	00	16.9		
633	NORTH FORK FLATHEAD RIVER	17010206	08510001	01	29.0		
634	NORTH FORK FLATHEAD RIVER	17010206	08510001	02	37.0		
640	SOUTH FORK COAL CREEK	17010206	08662010	00	12.9		
659	WHALE CREEK	17010206	08770001	01	14.5		
664	WHALE CREEK	17010206	08770001	02	17.7		
652	TRAIL CREEK	17010206	08794001	01	12.6		
653	TRAIL CREEK	17010206	08794001	02	4.8		
628	MIDDLE FORK FLATHEAD RIVER	17010207	08474001	01	22.5		
629	MIDDLE FORK FLATHEAD RIVER	17010207	08474001	02	40.2		
630	MIDDLE FORK FLATHEAD RIVER	17010207	08474001	03	85.3		
593	ASHLEY CREEK	17010208	07014001	01	34.8		
594	ASHLEY CREEK	17010208	07014001	02	21.2		
615	FLATHEAD RIVER	17010208	07156001	01	28.2		
616	FLATHEAD RIVER	17010208	07156001	02	38.0		
617	FLATHEAD RIVER	17010208	07156001	03	14.3		
641	SOUTH FORK FLATHEAD RIVER	17010209	08666001	01	8.0		
642	SOUTH FORK FLATHEAD RIVER	17010209	08666001	02	27.4		
643	SOUTH FORK FLATHEAD RIVER	17010209	08666001	03	53.1		
626	LOGAN CREEK	17010210	07250001	01	12.4		
627	LOGAN CREEK	17010210	07250001	02	15.8		
644	STILLWATER RIVER	17010210	07442001	01	32.5		
645	STILLWATER RIVER	17010210	07442001	02	21.9		
646	STILLWATER RIVER	17010210	07442001	03	15.1		
647	STILLWATER RIVER	17010210	07442001	04	17.4		
651	SWIFT CREEK(WHITEFISH CR.)	17010210	07496001	01	34.0		
657	WHITEFISH RIVER	17010210	07498001	01	8.4		
658	WHITEFISH RIVER	17010210	07498001	02	15.3		
661	WHITEFISH RIVER	17010210	07498001	03	15.4		
595	BEAVER CREEK	17010211	07024001	01	3.4		
596	BEAVER CREEK	17010211	07024001	02	14.6		
597	BEAVER CREEK	17010211	07024001	03	6.1		
672	CEDAR CREEK	17010211	07074001	01	6.6		
604	CEDAR CREEK	17010211	07074001	02	6.8		
607	COLD CREEK	17010211	07086001	01	6.9		
610	ELK CREEK	17010211	07134001	01	14.3		
618	GLACIER CREEK	17010211	07170001	00	22.9		
619	GOAT CREEK	17010211	07172001	01	15.0		
622	LION CREEK	17010211	07242001	00	22.4		
632	NORTH FORK COLD CREEK	17010211	07316010	00	5.3		

AGE 17 DATE 10/03/77

MONT FISH & GAME STREAM REACHES FOR WHICH DATA IS STORED IN INTERAGENCY DATA BANK

SERIAL NUMBER	STREAM NAME	HYDROLOGIC UNIT CODE	STATE CODE	REACH NUMBER	LENGTH KM	RES VALUE	SP FISH VALUE
67	PIPER CREEK	17010211	07344010	01	14.6		
68	PORCUPINE CREEK	17010211	07352010	00	8.4		
670	SOUTH FORK COLD CREEK	17010211	07408010	00	8.0		
649	SWAN RIVER	17010211	07456001	00	22.9		
650	SWAN RIVER	17010211	07458001	01	80.1		
684	WOODWARD CREEK	17010211	07510001	01	7.6		
620	HERRIG CREEK	17010212	07206010	00	9.7		
623	LITTLE BITTERROOT RIVER	17010212	07246001	01	11.3		
624	LITTLE BITTERROOT RIVER	17010212	07246001	02	24.1		
600	BULL RIVER	17010213	05086401	01	13.2		
599	BULL RIVER	17010213	05086401	02	12.9		
601	BULL RIVER	17010213	05086401	03	10.8		
605	CLEAR CREEK	17010213	05147201	01	16.4		
687	EAST FORK BULL RIVER	17010213	05227201	00	11.3		
614	FISHTRAP CREEK	17010213	05280001	01	23.0		
625	LITTLE THOMPSON RIVER	17010213	05411201	00	23.8		
648	SWAMP CREEK	17010213	05708801	01	7.6		
682	SWAMP CREEK	17010213	05708801	02	12.4		
654	THOMPSON RIVER	17010213	05724801	01	43.1		
655	THOMPSON RIVER	17010213	05724801	02	8.9		
656	THOMPSON RIVER	17010213	05726401	02	16.1		
665	WEEKSVILLE CREEK	17010213	05780801	00	9.7		
660	WEST FORK THOMPSON RIVER	17010213	05808001	00	12.9		

AGE 18 DATE 10/03/77

INTERAGENCY STREAM FISHERY DATA INPUT FORM

SER. NUMBER

C A R D	STATE	1	NATIONAL WATERSHED NUMBER					STATE WATER CODE		REACH	Resource Val.	Sp. Fish Val.
			1	2	3	4	5	DRAINAGE	WATER			
STREAM NAME												
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75												

UPPER REACH BOUNDARY DESCRIPTION

C A R D	TOWNSHIP	RANGE	SECTION	SUB-SECTION	LATITUDE			LONGITUDE			LANDMARK NAME	ELEVATION		AV. WETTED WIDTH		RATING
					DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS		METERS	RATING	METERS	RATING	
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LOWER REACH BOUNDARY DESCRIPTION

C A R D	TOWNSHIP	RANGE	SECTION	SUB-SECTION	LATITUDE			LONGITUDE			LANDMARK NAME	ELEVATION		AV. WETTED WIDTH		RATING
					DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS		METERS	RATING	METERS	RATING	
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Channel Definition Point (for mapping)*

C A R D	TOWNSHIP	RANGE	SECTION	SUB-SECTION	LATITUDE			LONGITUDE			GRADIENT %	TRIBUTARY TO - NAME	COUNTIES *					
					DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS			1	2	3	4	5	6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75																		

BANK OWNERSHIP (1 Km of STREAM = 2 Km of BANK)

C A R D	MOUNTAIN RANGE	WILDERNESS OR PRIMITIVE AREAS		FOREST SERVICE		BLM		OTHER AGENCY		OWNER 1		OWNER 2		OWNER 3		OWNER 4		RATING
		1	2	REGION	DISTRICT	AREA	IND. OR MIL. RES. OR NAT. WILD. REF.	AGENCY OR AREA	DISTRICT OR AREA	CODE	Km	CODE	Km	CODE	Km	CODE	Km	
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75																		

BANK OWNERSHIP (CONT.)

C A R D	OWNER 5	OWNER 6	OWNER 7	ACCESS *						INGRESS
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*See Instructions

WRITE LEGIBLY - USE SOFT PENCIL OR FELT POINT PEN
USE PRINTED CAPITAL LETTERS INCLUDING I, O, Z AND S

WATER YIELD, FLOW AND VELOCITY

C A R D	AV. ANNUAL WATER YIELD		AV. FLOW		NORMAL PEAK FLOW		NORMAL LOW FLOW		AVERAGE VELOCITY		MINIMUM INSTANTANEOUS FLOWS (M ³ /SEC) ACCEPTABLE FOR MAINTENANCE OF FISHERY											
	RATING		M ³ /SEC		RATING		M ³ /SEC		RATING		M/SEC		RATING		JAN	FEB	MAR	APR	MAY	JUNE	JULY	
	HM ² /YR						M ³ /SEC				M/SEC		RATING		M ³ /SEC	M ³ /SEC	M ³ /SEC	M ³ /SEC	M ³ /SEC	M ³ /SEC	M ³ /SEC	
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FISH POPULATION (CONT.)										NUMBER OF CATCHABLE-SIZE GAME & SPORT FISH PER 300 METERS (Standing Crop)										SPECIES										SPECIES										Season or Month applicable to Standing Crop Data*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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INTERAGENCY STREAM FISHERY DATA INPUT FORM

General Instructions
for Montana

This is a coding guide for persons familiar with the data bank. Detailed information on individual entries will be given in a USERS MANUAL. It is not intended that all data for a water be entered at one time but rather as they become available. New forms can be submitted as needed. However, THE AGENCY MAKING THE FIRST ENTRY FOR A STREAM REACH SHOULD ENTER ALL WATER IDENTIFICATION AND LOCATION INFORMATION ON CARDS 1, 2, 3, 4 and on card 5 through Administrative Locations.

Metric measurements are to be used exclusively. For metric equivalents of English units see Appendix.

An * in heading indicates special coding and directs the user's attention to the instructions.

• indicates decimal point. Where not provided a decimal point can be added thus:

1	.	6
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If there is insufficient space for counties (card 4), for ownership and access (cards 5 & 6), for fish population and creel data (cards 11-16) or for data source and additional information (card 18) enter the data on an additional form and attach a card 1 with the state water code number and reach number entered. Submit it a day or two after original form so it will be a separate entry.

Most fields (a field is a unit of data) are right-justified, i.e., the last digit or letter must be in the right-most box and blanks, if any, are at the left end. Some fields are left-justified. These are signified by an arrow ←. Here, blanks, if any, are on the right. You have flexibility in making entries in open fields (those calling for names and words); leave blanks where desired. Apostrophes, periods, dashes, and slashes are also permissible.

Boxes labeled RATING ask you to judge the quality of your data from "1" which is the poorest to "9" which is best. Rate conservatively. As a guide:

- 1 to 3 means the data being rated are based on judgment estimates
- 4 to 6 means the data being rated are based on limited measurements
- 7 to 9 means the data being rated are based on extensive measurements

Y or N asks you to answer: Y(Yes) or N(No).

Spaces that do not have headings should be left blank.

Specific InstructionsCard 1

Serial Number. This number will be controlled by regional or state office of agency entering information.

State. The code for Montana is 30.

National Watershed No. This entry designates drainage areas. Regional or state offices of agencies have these codes.

State Water Code and Type. Obtain state water code and water type from list furnished by Montana Department of Fish and Game or write or phone: Fish Division, Montana Department of Fish and Game, Helena 59601 - Phone 449-2448. Stream water type codes are 01 = trout stream; 02 = nontrout stream; 10 = stream management undesignated; 19 = stream unable to sustain population.

Reach. Ideally a reach will be a length of stream with distinct physical characteristics (e.g., slow in meadow, rapid in gorge); a typical stream will have more than one reach; and these will be surveyed as discrete units, numbered sequentially from the mouth sourceward, with separate forms filled out for each. Typically, however, only part of a stream will be examined; it will be assigned a reach number and data will be entered as surveyed. Eventually this reach may be lengthened or shortened as more data are collected. Note: in the state water numbering system some streams are divided into sections, e.g., Madison River has four sections. Each is given a separate water code number. Reaches must be chosen so they are completely within the section; they cannot overlap from one section into another. Likewise they should not overlap National Forest boundaries. A stream (or stream section) as a whole (or essentially so) is reach "0" (zero). It is anticipated many streams will have data entered for individual reaches and also will have data such as bank ownership, access, water yields, and flows entered for the stream as a whole (reach "0"). Data entered for the stream as a whole need not be entered for individual reaches and vice versa.

Resource Value and Sport Fishing Value. These ratings will be entered by computer.

Cards 2, 3 & 4

Reach Boundaries. Reach boundaries will preferably be at physical features such as bridges and tributaries. Where such features are present, name them in spaces provided. Any description (e.g., 1/2 mi above Forest) will be helpful. In any event, also enter township, range, section and subsection (to 4th division where pertinent) for upper and lower boundaries. If reach exceeds 4 Km and the channel would be better defined by three points than two, fill in columns for "Channel Definition Point." Select this point so it best locates the stream channel for computer mapping. The method for subdividing sections is given in the Appendix. If preferred, latitude and longitude may be substituted for township, range and section.

Gradient (%) = $\frac{\text{Difference in elev. (meters) from upper to lower end of reach}}{\text{Length of reach (meters)}} \times 100$

Counties. Enter all counties bordering a stream reach or through which the reach passes. Enter downstream county first, others can be in random order. County codes are:

001 Beaverhead	029 Flathead	057 Madison	085 Roosevelt
003 Big Horn	031 Gallatin	059 Meagher	087 Rosebud
005 Blaine	033 Garfield	061 Mineral	089 Sanders
007 Broadwater	035 Glacier	063 Missoula	091 Sheridan
009 Carbon	037 Golden Valley	065 Musselshell	093 Silver Bow
011 Carter	039 Granite	067 Park	095 Stillwater
013 Cascade	041 Hill	069 Petroleum	097 Sweet Grass
015 Chouteau	043 Jefferson	071 Phillips	099 Teton
017 Custer	045 Judith Basin	073 Pondera	101 Toole
019 Daniels	047 Lake	075 Powder River	103 Treasure
021 Dawson	049 Lewis & Clark	077 Powell	105 Valley
023 Deer Lodge	051 Liberty	079 Prairie	107 Wheatland
025 Fallon	053 Lincoln	081 Ravalli	109 Wibaux
027 Fergus	055 McCone	083 Richland	111 Yellowstone

Cards 5 & 6

Mountain Range, Wilderness and Primitive Areas. If not applicable, leave blank. If applicable, codes are given in the Appendix. Two sets of boxes are provided for instances where a stream runs through two wilderness or primitive areas.

Administrative Locations. Administrative location entries enable each agency to draw information from the data bank on waters within its administrative boundaries (forest and district ADP codes for National Forests in Region 1 are given in Appendix). Ind. or mil. res. or nat. wild. ref. = Indian or military reservation or National Wildlife Refuge. For Other Agency (i.e., other than BLM, F&W Ser. and Dept. of F&G) enter agency code from Appendix and appropriate district or area designation. If a reach is in two Forest Service districts the "Other Agency" field can be used, if desired, for the second district. Thus, an entry for Belt Creek District of Lewis and Clark Forest would be:

OTHER AGENCY	
AGENCY	DISTRICT OR AREA
-F	S/5/03
Forest	Dist.

Bank Ownership. Use Agency and Ownership codes given in Appendix.

Access. Access (ability to enter as pertains to physical barriers) codes: In the column marked LET. enter the letter (from below) which designates the "highest" or easiest method of travel (access) that can be used to reach the length of the reach designated by your entry in the squares marked Km (reaching a point on the stream by vehicle is considered to have made 8 Km of stream accessible - 4 upstream and 4 downstream or less in rugged terrain). The column designated RESTR. (restriction) should be left blank unless there is an administrative or owner restriction prohibiting use of the "highest" method permitted by the terrain or existing trail or road (e.g., a road closure). If there is such a restriction, enter "X" in this square. There are spaces for up to six access categories as many stream reaches will not be accessible throughout by the same means of travel (more can be added if needed -- see General Instructions above).

A = Passenger auto

J = 4-wheel drive (i.e., J for jeep)

B = Motor bike

H = horse

W = Foot (walking)

F = Floating

Ingress. Ingress in this data bank means the legal right to enter.

Code

- 1 - Stream section bordered almost entirely by public lands which insure ingress by anglers (exclude state school sections).
- 2 - A stream section bordered mostly by public land distributed in such a way that no significant portion of the stream is unavailable by vehicle and/or walking. Floating may also be a major means of access.
- 3 - A stream section bordered by mostly private land where ingress is uncontrolled or readily available by permission. This portion may be available by floating or through navigability laws. Also includes corporate lands - these are currently open but could go to individual ownership in the future or company policy regarding ingress could change.
- 4 - A stream section bordered mostly by private land where ingress is limited but some fishing is allowed. May include minor portions where public land or road crossing may provide limited ingress. The portion through private land is available by floating or through navigability laws.
- 5 - A stream section bordered entirely by private land where public fishing is available for a fee or where a small group has leased exclusive rights. Legality may be in question on some streams but this category identifies the current "fee" or "lease" fishing areas.
- 6 - A stream section bordered mostly by private land where little or no ingress by permission is allowed. Floating precluded by stream size or other physical limitation (no road or public land to reach stream).
- 7 - A stream or stream segment bordered by public land that is unavailable because of posting on private land or locked gates on private roads.

Cards 7 & 8

Average Flow. Ideally, average flow will be based on annual water yield
($\text{hm}^3/\text{yr} \div 31.5619 = \text{m}^3/\text{sec}$).

Average Velocity. Ideally, velocity will be measured with a current meter at a uniform stream cross section in a run (defined below) that typifies the reach. It should be measured at a time of more or less average stream flow.

Water Reserved. If unknown, leave blank.

Pool-Run-Riffle Ratio. Estimate the percent of each type for a portion of the stream at low water:

Pool - usually deeper, quiet water (although pools may be at the base of falls).

Run - moderately moving water with the surface not turbulent to the extent of being broken. Intermediate between pool and riffle.

Riffle - shallow, fast moving water where the surface is turbulent and broken.

Estimated Average Maximum Pool Depth. Ideally, the maximum depth of each pool in reach is measured and the average of these measurements computed.

Cards 9 & 10

Sinuosity. Sinuosity is the ratio of channel length to down-valley distance.

Bank Vegetation. Predominant (80% or more) type: C = conifer D = deciduous
G = grass-forbs M = mixed S = shrubs.

Rating: This is a visual estimate of vegetation on the stream bank as it relates to shade. A scale of 0 to 2 is used as follows:

2.0 - Bank is medium to heavily covered with trees and/or tall shrubs. (A bank with no more than one continuous 3-meter opening each 30 meters is considered medium dense. In addition to one 3-meter opening, there may be several smaller openings less than 3 meters in length.)

1.5 - Bank has scattered trees and/or tall shrubs. (A scattered density must have 2 or more 3-meter openings each 30 meters. The lower extreme of a scattered density condition would be the occurrence of only one tree or tall shrub within the 30-meter bank section.)

1.0 - Bank is medium to heavily covered with low shrubs, forbs or grasses, or a combination of these plants.

0.5 - Bank is mostly or entirely free of vegetation.

Bank Stability. Stability is to be viewed from the standpoint of whether the banks are eroding at a slow and normal rate, or whether erosion is accelerated and is contributing excessive amounts of sediment. A visual estimation of bank stability is measured on a scale of 0 to 2 as follows:

2.0 - Totally stable

1.5 - 50% or more of bank is stable but not totally stable

1.0 - Less than 50% stable but not totally unstable

0.5 - Totally unstable

Channel Stability. This rating should be obtained by procedure described in booklet, Stream Reach Inventory and Channel Stability Evaluation, Reg 1 USFS (R1-75-002) April 1975.

Average Peak Water Temperature. Enter highest temperature reached in an average summer.

Spring Creek. A spring creek is identified by its fairly constant temperature and flow and clear water. Watercress will often be present.

Affected by Lake. Is water temperature, flow pattern, and/or fish food significantly affected by lake or impoundment within this reach or upstream, does downstream lake or reservoir result in fish runs into reach or ice problems in reach? Y(Yes) or N(No).

Alkalinity, Specific Conductance, Turbidity, pH, and Total Dissolved Solids. If you have only one figure for an item, enter it as "normal low" and enter A for average, E for estimate or S for single measurement in rating column. The entry for alkalinity should be total alkalinity, i.e., combined phenolphthalein alkalinity and methyl orange alkalinity expressed as mg/l of calcium carbonate.

Nonfishery Use and Floatability. Enter "X" where appropriate.

Dom. wtr. supply = Domestic water supply
 Indust. wtr supply = Industrial water supply
 Comm. fishing = Commercial fishing
 Improves wat. qual. = Improves water quality

Special Value. Entries in this section on card 10 can be used to show the value of a reach which does not have a significant game or sport fish population. Enter an "X" for Local Community Importance if the stream reach deserves special consideration as it is one of few or the only stream environment in the immediate area and it is important for science teaching, nature study and/or recreation.

Cards 11 & 12

Fish Population. Species: State fish codes are in Appendix.

Abundance of fish will refer only to adult fish, or in case of game and sport fish to keeper size (7" minimum for trout). Hatchery fish are excluded. The following codes will be used:

- A = Abundant
- B = Abundant with proportional number of bragging size
- C = Common
- D = Common with proportional number of bragging size
- U = Uncommon
- V = Uncommon with proportional number of bragging size
- R = Rare
- E = Presence not verified but expected
- M = Species absent but could be present if habitat problems corrected
- N = Not present
- | P = Species absent, but might be present if introduced (e.g., potential habitat in a barren stream)
- Z = Abundance unknown

As a guide, numbers per 813 square meters (8750 square feet, or 25 feet wide by 350 long) at summer stream levels are: A = 45 or more, C = 11 to 44, U = 1 to 10 and R = <1. On a fish per hectare basis (a hectare is 2.5 acres): A = 551 or more, C = 138 to 550, U = 15 to 137, and R = 14 or less. Criteria for bragging size fish are given in the Appendix. If no fish present, code as:

SPECIES		
CODE	ASUN	USE
0	0	0
N	N	N

Fishes' Use of Reach is coded as follows:

Codes indicating single use or dominate use:

- L = Resident throughout life
- A = Nursery (or subadult) to adult--spawning elsewhere
- C = Passing through--species uses reach as a corridor to migrate upstream and return downstream
- F = Feeding run
- H = Spawning and hatching--young promptly move downstream
- J = Spawning and nursery to subadult
- K = Nursey to subadult--spawning elsewhere
- N = No use (in connection with abundance codes M, N and P)
- Z = Use undetermined

Codes that are combinations of the above codes to indicate more than one population of a species)"

- R = L plus H or J, i.e., a stream used as 1) a spawning and possibly a nursery stream--spawners come from elsewhere, 2) a stream supporting a resident population throughout its life cycle.
- P = C plus any other category except F, e.g., a stream used by some fish as a passageway only and by others for residence, spawning or rearing.
- S = H and/or J plus any other category except L and C, e.g., a stream used by one population for spawning and by another for activities other than those covered by R and P.
- Ø = Any other combination

Note: Quality rating for all data on cards 11 and 12 is at the end of card 11.

Cards 13 & 14

Number of Catchable Size Game and Sport Fish in 300 Meters - Fish population data is usually obtained by electrofishing and a mark-recapture technique. Data recorded should be the best estimate available of the standing crop of important species and may include coarse fish species. In minimum length (min. len.) field enter minimum length of fish included in data; this may include subcatchable lengths if this is the only feasible breakdown of the data.

Season or Month Applicable to Standing Crop Data. As standing crops may differ with the season, enter the month (e.g., Sept) or season (e.g., Fall) applicable for number and biomass. If more space needed (e.g., rainbow estimate in fall and brown trout estimate in spring) make appropriate entry in right-hand field of card 18.

Total Weight (Biomass) of Game and Sport Fish in 300 Meters - The same provisions as for Number (second item above) only here all fish are considered rather than just catchable fish. Enter decimals if needed.

Growth Rate - Enter a judgment appraisal of the growth rate of game or sport species. Codes: G = good F = fair P = poor. As a guide, for Age II trout G is greater than 6 inches per year; F is 2-6 inches per year; P is less than 2 inches per year. It is anticipated growth rate in most reaches will be rated as fair.

% Potential Fish Biomass - The present biomass of game and sport fish is what percent of the potential biomass if major problems were taken care of? Enter range.

Card 15

Present Sport Fishing Pressure. Fishing pressure figures for some waters (limited to reaches numbered 0, i.e., whole streams or sections) may be automatically entered from Department of Fish and Game's fishing pressure survey. A quality rating of 4 is reserved for this and designates survey data. If you have data, enter an upper and lower limit using a quality rating other than 4. If 3 or less, it will be replaced with survey data if and when available. In the space provided enter the year the data applies to.

% of Allowable Fishing Pressure - The present angler use is what percent of total pressure this reach can stand and still maintain quality fishing in terms of fisherman density, size of fish and catch per hour. Enter range.

Species Composition of Game and Sport Fish Creeled. The same provisions apply as set forth in the above paragraph, only here data may be entered from the Department of Fish and Game's fisherman log program. A quality rating of 4 designates fisherman log data.

Card 16

Aquatic Plants and Aquatic Invertebrates. Enter: A = abundant C = common (plentiful) U = uncommon R = rare X = present, abundance not specified N = none observed.

As a guide, numbers of invertebrates per .093 square meters (1 square foot):

A = 100 or over, C = 25 to 99, U = 3 to 24, R = 2 or less

Habitat Trends. Enter "X's" under applicable headings.

Esthetics. Esthetics should be coded 1 (low) through 5 (high) based on the following:

- 1 - A stream with low esthetic qualities. Water is often turbid. The surrounding country has only mediocre scenic appeal and is of common occurrence. A lack of cover is apparent. Mud banks are common and stream flows occasionally may become so low as to expose extensive expanses of mud flats and sand bars. Noxious domestic and industrial wastes may occur. This type of water's primary appeal usually lies in the fact that, although it may not be attractive, it does offer local people an opportunity to get outdoors near some water.
- 2 - An area with fair scenic or esthetic qualities. This type of water is fairly common and has some attraction for nonresident tourists. The water is clean, the scenery is appealing. The land is not abused. The area, however, lacks what usually are considered unusual or outstanding scenic qualities.

Esthetics (continued).

- 3 - A water of considerable natural beauty but of a more common type than listed under 4 and 5. A clean and usually clear stream in an attractive agricultural area or rough land with picturesque scenery. This type of water often is favored by fishermen.
- 4 - A water comparable to 5, except that it often lacks pristine characteristics. Presence of human development such as roads, farms, or commercial establishments usually comprise the chief differences between 4 and 5. This type of water usually has high use by fishermen. In some cases, however, the limiting consideration might be climatic or biological. Excessive rainfall, extreme cold, or insect pests might be so bothersome as to limit esthetic value.
- 5 - A water of outstanding natural beauty usually of a unique type and possessing pristine characteristics. Stream is usually clean and clear. Climatic characteristics that add to the pleasure of fishing.

Fishery Value Would Be Higher Except for the Following Factors. To be determined by fishery biologist. Be conservative in making entries -- be able to substantiate that each factor "X'd" is, in fact, limiting the fishery value. Enter "X" to indicate limiting factors. If more than one box describes a condition or problem each can be "X'd" in spite of possible redundancy. Following are exceptions and definitions:

Limiting Factors - Physical or Climatic - *Temp.* - Summer water temperature is so low or high that it adversely affects fish production. For trout this would be less than 10°C (50°F) or over 21°C (70°F). If this item is "X'd" enter average peak water temperature on card 9 (see instructions for that card). If excessive temperature is caused by thermal effluent or return irrigation water, also "X" appropriate box under Man-Caused Pollution (card 17); if due to dewatering, write "dewater causes temp" in the left-hand field on card 18.

Low Nutrients - Stream is infertile.

Riffle Area Exc. - Riffle Area Excessive.

Ice - Anchor ice, scouring by ice or any other icing condition that reduces fish production.

Exc. Flow Fluct. - Excessive Flow Fluctuations. Low flow inadequate (or high flow excessive) for channel characteristics and fish habitat. If due to natural causes, "X" this box (card 16). If man-caused "X" appropriate box(es) on card 17.

Bedload Movement - Excessive movement of bottom material resulting in unstable substrate for invertebrates and filling or shifting of pools.

Hi (Highly) Erosive Drainage - Soils of the drainage are highly unstable and erosive.

Lack of Und. Bk. - Lack of Undercut Bank. (on streams where undercut bank expected)

Nat'l. Barr. - Natural Barrier: If present code: M = in mainstream T = in tributary blocking run B = both.

Limiting Factors - Biological - *Undesirable Fish* - If present enter species code(s), emphasis should be on exotic species.

Low Aqua. Invert. - Low aquatic invertebrate biomass.

Lack of Bk. Cov. - Lack of bank vegetation serving as cover for fish.

Hard to Fish - Stream too brushy for convenient fishing, including too brushy during high water.

Card 17

Man-Caused Pollution - *Thermal Effluent* - Problems caused by power plants, dams and the like.

Comm. Chemical - Commercial Chemical.

Comm. Organic - Commercial Organic (meat packinghouse effluent, etc.)

Irrigation Related - Irrigation returns that significantly increase water temperature, silt and/or nutrients.

Other Man-Caused Limiting Factors - *Fish Harv. Exc. Yield* - Game or sport fish harvest exceeds optimum-sustainable yield: that is, the harvest (including mortality of released fish) is heavy enough to be detrimental to the "quality" of recreational fishing in terms of size of fish and/or catch per hour.

Barrier to Fish Pass. - Barrier to Fish Passage: If present, code: M = in main-stream T = in tributary blocking run B = both.

Overharv. NG Fish - Overharvest Nongame Fish.

Wat. Remov. or Fluctuated for - Water Removed or Fluctuated for.

Mun/Dom. - Municipal or domestic use.

Chan. Alter. For - Channel Altered For.

Road or RR - Road or Railroad.

Dredge - Dredged as a mining activity, or dredged for channel clearance.

Other - Specify in left-hand field, card 18.

Bank Encroachment - Road, plowed field or ... on bank to detriment of fish habitat. Edge of stream may be filled, but channel not appreciably altered. "X" the cause.

Road or RR - Road or Railroad.

Stock Tramp. - Stock Trampling.

Watershed Abuse

Log. Pract. - Poor logging practices.

Min. Pract. - Poor mining practices.

Other - Specify in left-hand field, card 18.

Recreat. Conflict. Recreational Conflict - Enter "X" for each recreational activity that conflicts with fishing or damages fish habitat.

Gen. Rec. Overuse - General recreational streambank overuse.

Management Needs or Recommendations. To be completed by fishery biologist and substantiated by narrative in reporting agency's files. Recommendations must be feasible. Appropriate land management or fish management agency must be consulted before recording a need in that agency's area of responsibility. Enter "X" to indicate management needs. Following are special instructions:

Alleviate Man-C. Flow - Alleviate Man-Caused Flow: Alleviate man-caused flow problem -- especially applies to dams, could also apply to dewatering for irrigation, industry etc., if water removed is in excess of established norms for water right.

Irrigation Improvement - "X" this box only if it can be established that poor irrigation practices (excessive water removed, excessive sediment in return flows, excessive channel disruption in removing water, etc.), based on established norms, are being used.

Bank Veg. Cover - Vegetate bank to provide cover for fish.

Bank Fencing - *Km of Fence* - If streambank fencing needed, enter kilometers of fence required.

Barrier Removal - Remove barrier from mainstream = M from tributary = T from both = B.

Channel Improvement - Riprap, stream improvement structures, etc., or removal thereof, or rechanneling to original channel, if feasible.

Improve Leg. Ingr. - Improve Legal Ingress.

Improve Phys. Acc. - Improve Physical Access.

Mitigate Rec. Overuse - Mitigate recreational overuse or conflict.

Enforce Regulations - Enforce fishing or recreational use regulations.

Change Comm. Mgmt. - Change needed in management of commercial fishery.

Card 18

Note: Additional information on any item including information for which no specific space is provided can be entered in the last field on card 18 in addition to DATA SOURCE...and ADDITIONAL INFORMATION AVAILABLE FROM...

Appendix

Metric Abbreviations Used on Data Bank Input Forms and Factors for Converting English Units to Metric Units

°C or Celsius = (°Fahrenheit - 32°) x .556

cm or centimeters = inches x 2.54

= feet x 30.48

g or grams = pounds x 453.5924

ha or hectares (square hectometers) = acre x .4047

hm or hectometers = 100 meters

hm³ or cubic hectometers = acre feet x .001233

= cubic kilometer (km³) x 1000

kg or kilograms = pounds x .4536

kg/ha or kilograms per hectare = pounds per acre x 1.1208

kilograms per 300 meters = pounds per 1000 feet x .4465

km or kilometers (1000 meters) = miles x 1.609 or feet x .0003048

m or meters = feet x .3048

= yards x .9144

m/sec or meters per second = feet per second x .3048

m³/sec or cubic meters per second = cubic feet per second x .02832

= hm³/yr ÷ 31.5619

mg/l or milligrams per liter = parts per million

fish/300 meters = fish per mile ÷ 5.36

FOREST AND DISTRICT ADP CODE, REGION 1

FOREST	CODE	DISTRICT	CODE	FOREST	CODE	DISTRICT	CODE
BEAVERHEAD	02	Dillon	01	GALLATIN	11	Big Timber	01
		Wise River	02			Livingston	02
		Wisdom	03			Gardiner	03
		Sheridan	06			Bozeman	05
		Madison	07			Gallatin	06
BITTERROOT	03			HELENA	12	Hebgen Lake	07
		Stevensville	01			Townsend	01
		Darby	02			Canyon Ferry	02
		Sula	03			Helena	03
IDAHO PANHANDLE	04	West Fork	04	KOOTENAI	14	Lincoln	04
		Wallace	01			Rexford	01
		Avery	02			Yaak	02
		Fernan	03			Fortine	03
		St. Maries	04			Troy	04
		Sand Point	06			Libby	05
		Bonnors Ferry	07			Fisher River	06
		Priest Lake	08			Cabinet	07
CLEARWATER	05	Red Ives	09	LEWIS & CLARK	15		
		Pierce	01			Teton	01
		Palouse	02			Sun River	02
		Canyon	03			Belt Creek	03
		Kelly Creek	04			Judith	04
		Lochsa	05			Musselshell	06
CUSTER	08	Powell	06	LEWIS & CLARK	15	White Sulphur	07
				LOLO	16		
		Sheyenne	01			Missoula	03
		Beartooth	02			NineMile	04
		Sioux	03			Plains	05
		Ashland	04			Seeley Lake	06
		Ft. Howes	05			Superior	07
		Grand River	06			Thompson Falls	08
DEERLODGE	09	Medora	07	NEZPERCE	17		
		McKenzie	08			Salmon River	01
						Clearwater	04
						Red River	05
FLATHEAD	10	Deerlodge	01			Moose Creek	06
		Jefferson	02			Selway	07
		Philipsburg	03			Elk City	08
		Butte	04				
		Swan Lake	01				
		Spotted Bear	04				
		Hungry Horse	06				
		Glacier View	07				
		Tally Lake	08				

Codes for Mountain Ranges, Wilderness Areas and Primitive Areas in Montana

MOUNTAIN RANGES

Code	Mountain Range	Code	Mountain Range
ABS	Absaroka Range	LAR	Larb Hills
APG	Apgar Mountains (Glacier NP)	LEW	Lewis Range (Glacier NP)
		LBT	Little Belt Mountains
BPW	Bearpaw Mountains	LRK	Little Rocky Mountains
BTH	Beartooth Plateau	LSN	Little Snowy Mountains
BVH	Beaverhead Mountains	LWF	Little Wolf Mountains
BBT	Big Belt Mountains	LIV	Livingston Range (Glacier NP)
BHN	Bighorn Mountains		
BSY	Big Snowy Mountains	MAD	Madison Range
BIT	Bitterroot Range	MIS	Mission Range
BRI	Bridger Range		
BUT	Butte Highlands	PIN	Pintlar Peaks
			Pioneer Mountains (see E. Pioneer and W. Pioneer Mountains)
CAB	Cabinet Mountains	PRY	Pryor Mountains
CAS	Castle Mountains	PUR	Purcell Mountains
CEN	Centennial Mountains		
COR	Coer d'Alene Mountains	ROS	Rosebud Mountains
CZY	Crazy Mountains	RUB	Ruby Range
EPI	East Pioneer Mountains		
		SAL	Salish Mountains
FHD	Flathead Mountains	SAP	Sapphire Mountains
FLN	Flint Creek Range	SNO	Snowcrest Range
		SPA	Spanish Peaks
GAL	Gallatin Range	SPO	Spokane Hills
GLT	Galton Range	SWA	Swan Range
GRR	Garnet Range	SGR	Sweet Grass Hills
GRN	Granite Range		
GRV	Gravelly Range	TEN	Tendoy Mountains
		TOB	Tobacco Root Mountains
HIM	Highwood Mountains	TRI	Trilobite Range
HRS	Horseshoe Hills		
		WPI	West Pioneer Mountains
JON	John Long Mountains	WHI	Whitefish Range
JUD	Judith Mountains	WOL	Wolf Mountains

WILDERNESS AND PRIMITIVE AREAS

Code	Area	Code	Area
<u>Wilderness Areas - USFS</u>		<u>National Park System proposals awaiting enactment</u>	
ANP	Anaconda-Pintler	GLW	Glacier
BOB	Bob Marshall		
CAW	Cabinet Mountains	<u>Wildlife Refuge proposals awaiting enactment -</u>	
GTM	Gates of the Mountains	FWS	
MSW	Mission Mountains		
SCA	Scapegoat	CMR	Charles M. Russell - BLM-FWS
SBR	Selway-Bitterroot	MED	Medicine Lake
		RED	Red Rock Lakes
<u>Primitive Areas - USFS</u>		ULB	UL Bend
ASB	Absaroka-Beartooth		
SPP	Spanish Peaks		
<u>Primitive Areas - BLM</u>			
BTC	Beartrap Canyon		
HUM	Humbug Spires		

Agency and Owner Codes

Code

ACM	Anaconda Copper Mining Co.
BLM	U.S. Bureau of Land Management
-BN	Burlington Northern
-CE	Corps of Engineers, U. S. Army
CFU	MT Cooperative Fishery Unit
COR	Other Industrial Corporations
DNR	MT Dept. of Natural Resources
DSL	MT Dept. of State Lands (school lands, etc.)
EPA	U.S. Environmental Protection Agency (including Storet)
F&G	MT Dept. of Fish & Game
-FS	U.S. Forest Service
FWS	U.S. Fish & Wildlife Service
-IR	Indian Reservation
LPC	Louisiana Pacific Lumber Co.
MHD	MT Highway Dept.
MHE	MT Dept. of Health & Environmental Sciences
MPC	Montana Power Co.
-MR	Military Reservation
MSF	MT State Forest
MSU	MT State University
NPS	National Park Service
PLP	Pacific Light & Power
PRI	Other Private
REC	U.S. Bureau of Reclamation
SCS	Soil Conservation Service
S&L	Other State & Local
-UM	University of Montana
USP	U.S. Plywood
-WE	Western Energy
WLC	Weyhauser Lumber Co.
WWP	Washington Water Power Co.

MONTANA FISHES IN CODE NUMBER SEQUENCE

Code	Name	Code	Name
000	No fish present	055	River carpsucker
001	Rainbow trout*	056	Longnose sucker
002	Cutthroat trout*	057	White sucker
003	Brook trout	058	Largescale sucker
004	Brown trout	059	Blue sucker
005	Dolly Varden	060	Bigmouth buffalo
006	Lake trout	061	Smallmouth buffalo
007	Golden trout	062	Shorthead redhorse
008	Kokanee	063	Mountain sucker
009	Coho (Silver salmon)	064	Stonecat
010	Arctic grayling	065	Black bullhead
011	Rainbow X cutthroat hybrid	066	Yellow bullhead
012	Cutthroat trout, westslope	067	
013	Cutthroat trout, Yellowstone	068	
014	Whitefish*	069	
015	Lake whitefish	070	
016	Sculpin*	071	Brook stickleback
017	Largemouth bass	072	
018	Bass*	073	Smallmouth bass
019	Sunfish*	074	Bluegill
020	Yellow perch	075	Pumpkinseed
021	Crappie*	076	Green sunfish
022	Sauger/walleye*	077	Black crappie
023	Northern pike	078	White crappie
024	Channel catfish	079	Rock bass
025	Bullhead*	080	
026	Burbot	081	Sauger
027	Sturgeon*	082	Walleye
028	Paddlefish	083	Iowa darter
029	Peamouth	084	
030	Goldfish	085	Mountain whitefish
031	Sucker*	086	Pygmy whitefish
032	Carp	087	Chinook salmon
033	Northern squawfish	088	Splake
034	Goldfish	089	Salmon*
035	Utah chub	090	White sturgeon
036	Freshwater drum	091	Pallid sturgeon
037	Minnow*	092	Shovelnose sturgeon
038	Shortnose gar		
039	Longnose dace		
040	Buffalo*		
041	Finescale/Nor. redbelly dace	100	Trout perch
042	Brassy minnow	103	Plains killifish
043	Silvery/Plains minnow	106	Mosquitofish
044	Flathead chub	109	Shortfin molly
045	Lake chub	112	Variable platyfish
046	Sturgeon chub	115	Green swordtail
047	Emerald shiner	118	Trout*
048	Sand shiner	119	Trout/salmon*
049	Redside shiner	120	Rainbow X golden hybrid
050	Creek chub	121	Upper Missouir cutthroat trout
051	Pearl dace	122	Native rainbow trout
052	Fathead minnow	130	Mottled sculpin
053	Golden shiner	131	Slimy sculpin
054		132	Torrent sculpin
		133	Shorthead sculpin
		134	Spoonhead sculpin
		140	Silvery minnow
		141	Plains minnow

*Undesignated -- These codes used when more specific identification could not be made.

Bragging-size fish

<u>Species</u>	<u>kg</u>	<u>lbs.</u>	<u>Species</u>	<u>kg</u>	<u>lbs.</u>
Shovelnose sturgeon	2.7	6	Northern pike	6.8	15
Paddlefish	34.0	75	Bullhead - black		
Mountain whitefish	.9	2	& yellow	.3	.7
Kokanee	.9	2	Channel catfish	3.6	8
Cutthroat trout	.7	1.5	Burbot	2.7	6
Rainbow trout	1.8	4	Smallmouth bass	.9	2
Brown trout	2.3	5	Largemouth bass	1.8	4
Brook trout	.5	1	Crappie, black & white	.5	1
Dolly Varden	4.5	10	Yellow perch	.5	1
Lake trout	6.8	15	Sauger	.9	2
Arctic grayling	.9	2	Walleye	1.8	4
Golden trout	.5	1			

From: Montana Department of Fish and Game Fisheries Field Handbook

Land Description (Township - Range - Section - Subsection)

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Townships are located by a numbered grid system consisting of Range and Township lines. The Township lines run east and west of a principal meridian. The Range lines run north and south of an established base line. Thus, a Township is described as a number N or S of the base line, and a number E or W of the principal meridian.

A desirable modification of the usual method of describing a location on a map is the one used by several agencies including the USGS. A location is specified by using 12 characters - the first three give the Township; the next three the Range; the next two the Section number within the Township; and the next four the location within the quarter section (160 A), the quarter-quarter section (40 A), the quarter-quarter-quarter section (10 A) and the quarter-quarter-quarter-quarter section ($2\frac{1}{2}$ A). The subdivisions of the 640 A section are designated as A, B, C, and D in a counterclockwise direction, beginning in the northeast quadrant. For example, if a lake is located in Township 9N, Range 20W, Section 21 the description would be 09N20W21DAA. The letters DAA indicate the lake is in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$. As indicated above, a still further breakdown to a $2\frac{1}{2}$ -acre area is possible using a fourth letter (A, B, C, or D).



