MONTANA FISH AND GAME COMMISSION

W H Y C R E E L C E N S U S ?

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To the game warden force of the Montana State Fish and Game Department for their excellent cooperation in gathering creel census information.

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T A B L E O F C O N T E N T S

INTRODUCTION

Now fishing is fine sport, but when you get my age, even the lightest rod gets heavy after whipping a stream with a dry fly for hours. And anyway, I can catch just about as many fish during the hottest afternoon when I'm snoozing under a cottonwood. I really wasn't asleep but was in deep thought when I was startled by three intruders. Perhaps it wasn't proper for me to listen in, but I just didn't have the energy to move.

"Say, Bill, Joe and I've been talkin' over this creel census program of the Fish and Game Department. We think it's about the craziest thing we've heard of. Why, heck, here they're spendin' sportsmen's hard earned cash to count fish when I could tell 'em all there is to know about this stream and a dozen others like it. They could do a lot better with the money buyin' more fish food to raise more fish in the hatcheries."

Bill looked to me to be a man about my age, seventy or so, and the level-headed, cool type. He did get a bit flushed and irritated at this young fellow's criticism.

"Now wait a minute, Tom," Bill drawled as he leaned back on a boulder ready for a long verbal battle, "You sound just like I did when I first heard about creel census. I've given it a lot of thought. You and Joe should, too, before you condemn it. When I first came to Montana, my family lived on fish 'n' game 'till the ranch was started, and the crops started comin' in. At that time there was buffalo by the thousands on the range, and all other big game was plentiful. If anyone had said the buffalo 'd disappear 'cept on reserves, that badland's mountain sheep'd become extinct, and that it'ud become a lot harder to catch a mess of fish, I'd a thought he'd lost his mind. 'Memberin' this, I've learned to go slow drawin' conclusions. Don't just condemn somethin' you don't understand." You know us old-timers. Once we get going we can ramble on and on. Finally Joe stopped him.

"That's all interesting, but what's it got to do with creel census?"

"Well, it's this way." Bill had cooled off a bit and leaned forward to talk in earnest. "Since I been here, our fish 'n' game has dwindled as more and more people moved in. Regulations and bag limits helped some, but Montana kept gettin' more and more people so's there just ain't the fish and game to go 'round. Somethin' else's got to be done! We need to know how to take care of fish 'n' game so we can all get our share of sport and yet have enough left for breedin' and spawnin'. It looks to me like creel census is one step toward gettin' this done."

"I'll agree on the need for somethin', but how can countin' fish help?" Tom inquired. "Can't we fishermen tell whether a lake or stream is producin' fish?"

"Tom, you're raisin' cattle, ain't you?"

"You know dang well I am."

"When you started, there were lotsa ideas as to how and what kinda cattle to raise, right?"

"Yes, and there still are."

"Why did you pick a certain breed of cattle and use certain methods to raise them?"

"I just picked the breed that gave me the highest quality beef and raised them by methods that gave me the heaviest cattle for market."

"How do you figure your beef production? Do you take Joe's estimate, or do you just guess how much you'll have?"

"I use actual production."

"You feed your stock hay, Tom, but don't raise much yourself. You've been feedin' hay for years. Does that qualify you to tell Joe what his final estimate on his hay crop'll be, so he can plan his future farmin' activities?"

"Damn it, Bill, you know as well as I do that ranchers have to know their exact production per acre. Guessin' just don't pay," snapped Tom.

"You're right, and that's the way I got this creel census figured," responded the old-timer. "The Department can't prepare a better plan until it knows as accurately as possible the yield of our streams and lakes. They can't go on hunches, and they can hardly 'spect accurate information from guesses by people busy at other jobs. This is a job that requires careful examination of catches. There's a lot of this wildlife work that's easy to criticize, but let's give the Department a chance before rantin' and ravin' too much."

Tom spoke up, "What if creel census does come through with accurate figures on size, kind, and numbers of fish caught?"

Now old Bill let fly. "Can't you see that fish work needs basic information for operation as much as your ranch does?"

"I get it now! From the creel census, they can tell better how and where to stock the trout raised in hatcheries," replied Tom.

"Yes, and that information can help in lotsa other ways. It can show the size fish to plant and the best kind for any particular stream. It'll also be a good check on the results of stream improvements, closin' streams durin' spawnin' seasons, or any other thing they do to improve fishin' for the sportsmen. The more help we can give in this creel census, the easier the job'll be and the better the information gathered. It'll take years collecting this stuff to measure the effects of different management measures. This is just the start."

My peace and quiet had been interrupted for a few minutes, but I knew Joe, Tom, and Bill had left with greater peace of mind. No use in me fishing then. I knew the fish had all been spooked by this argument. I relaxed again and thought about the big one I'd catch later in the afternoon.

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This story is not improbable, and the justification for extensive efforts on creel census should be clear. It is an entirely logical approach. No one would consider operating a business on production figures alone without thought of demand, durability, type of product needed, cost, and profit. Creel census is one of the major links in the chain leading to sound operation for Montana's fishery management.

CREEL CENSUS IN MONTANA

Montana's first attempt at gathering systematic catch records on a state-wide basis was made during the years 1941, 1942, and 1943 when the deputy game wardens included in their monthly reports the number of persons checked for law enforcement purposes and the number and kinds of fish taken. These incomplete reports were not analyzed until 1947. The catch figures taken in sufficient quantity to warrant consideration are included in the tables of Appendix B.

After 1943, no catch information was gathered until the end of July, 1947, when the present concentrated effort to establish a state-wide creel census was begun. During the latter part of the summer of 1947, a few census forms were distributed to boathouse operators and dude ranchers on Hebgen Lake and the Gallatin River.

By 1948, the present program was established. The figures included in this report were gathered from the following sources:

1. Deputy Game Wardens and District Supervisors. Convenient forms have been furnished each enforcement officer, so he may easily, and with little added effort, record the desired catch data from persons contacted on streams. The bulk of the data was gathered through this source.

2. Biologists. During the summer of 1948, four fisheries biologists worked in the area around the Blackfoot and Clearwater drainages, and Rock Creek (the one entering the Clark Fork River at Bonita), and in the area south of Columbus and Big Timber. In addition to their assigned duties of gathering scale samples for growth studies, these men examined a large number of creels.

3. Guides and Outfitters. Those regularly engaged in guiding or outfitting fishermen are in an excellent position to furnish the Department with creel census of those fishing under their supervision. Three different forms have been prepared for the convenient recording of catches by guides, ranch and resort owners, and boathouse operators. Nine reported during 1948 and 48 in 1949.

4. Individual Fishermen. Pocket-sized booklets, "Fishermen's Logs", were prepared for distribution to cooperative sportsmen. These are mailed to persons requesting them and become their own, personal, permanent records. The Department asks for the temporary return of the logs to Helena at the end of the fishing season for transcription of the records. They are then returned to the fishermen for the next season.

During 1947 and 1948, 408 logs were distributed. By the end of 1948, there was response from 40 percent of the logholders. Of the 336 logs out in 1948, response was received from 72 percent. Distribution of logs by various experimental methods revealed that good returns are received only from logs mailed on written request by individual anglers.

Of the four sources of creel census, it is becoming increasingly evident that the Department must rely upon its own personnel for the bulk of information. Guides and Outfitters will contribute materially to the creel census of local areas. Individual fishermen interested enough to record their catches will probably never be exceedingly numerous; however, every bit of information helps.

The most tedious part of the creel census program is the tabulation and analysis which brings the mass of data into a usable form. The final figures are not based on guess or personal opinion but are a picture of actual, angler catch, an average of dozens or hundreds of fishing trips. Since creel census information is based on the average, the more information collected, the more accurate the census will be.

INFORMATION GAINED THUS FAR

1. FISH DISTRIBUTION MAPS

To date there has been no general picture available of the distribution of fishes in Montana. The 1948 and 1949 creel census make it possible to present a preliminary picture of trout distribution in the state. As more detailed catch records are gathered, and as these are supplemented by stream and lake survey information, the distribution maps herein presented will be modified and expanded in detail.

Distribution maps for the four major species of trout constitute Appendix A. Solid red areas on the maps show that one kind of fish made up from 50 to 100 percent of the reported catch. If a species was taken in the proportion of 5 to 49 percent in a certain area, that region was cross hatched. Dotted localities yielded species in proportions less than 5 percent. These percentages were figured on the basis of all game fish * reported.

Two "don'ts" should be noted. First, don't assume that trout are not caught in unmarked areas. They may be, but our creel census did not cover that locality. Second, don't assume, using rainbow trout as an example, that since both the Madison River and Smith River are blocked in red, the rainbow in the two are equally abundant. The maps simply show relative occurrence in the catch and do not necessarily indicate abundance.

* "Game fish," as used here, includes those fish for which the anglers according to our best judgment were fishing.

These maps are not presented simply as an interesting picture. They have practical value. Looking at tables alone and their small details, one is apt to lose sight of the broad picture. Certain areas and even drainages are seen to yield predominantly one kind of trout. These maps are invaluable to those concerned with planning stocking programs, that the fish giving the greatest return to the anglers in each area will be the ones liberated.

2. TABLES

The tables in Appendix B. include only that creel census information where a fair or reasonable number of checks was made throughout the season. Also included in the tables are the kinds and numbers of fish planted from hatcheries for the years 1946, 1947, and 1948. Although incomplete, creel census information taken before 1948 has been included for the purpose of comparison.

Careful study of the tables will reveal a number of interesting points. The material contained therein is not extensive, but even the meager information presented shows that creel census can shed light on a multitude of problems. The purpose of this discussion is to point out in a general way what creel census information means, and how it can be applied to practical management.

The five year hatchery trout planting program was devised for the purpose of correlating planting efforts in Montana. The program itself was formulated from the best possible sources of information available at that time. Creel census can aid in modifying the five year plan and can demonstrate the need for making such modifications. The census reflects the response of the fish themselves to the body of water in which they are living.

Keep the five year plan in mind. A glance at the tables of Appendix B immediately reveals that the species of fish planted do not always correspond to the species appearing most often in the fisherman's creel. The predominance of eastern brook trout in catches when cutthroats or rainbows, or both, are being stocked is rather common. There are 56 cases where eastern brook trout constituted more than 50 percent of the catch; and yet in 27 of these streams, no eastern brook were planted in 1946, 1947, and 1948. Considering these 27 streams, 19 of them received plantings of other trout. Of the entire 56 streams where eastern brook trout made up more than 50 percent of the catch, 16 of them had one or more other species of fish released where these species constituted less than five percent of the catch.

For the angler to receive the most from his license dollar, careful consideration should be given two matters that become evident from these figures. First, stocking of eastern brook trout for maintenance of good brook trout fishing is not necessary in many waters. Second, it appears that stocking rainbows, cutthroats, and browns in many lakes and streams where brook trout make up the bulk of the catch is not actually contributing much to total fishing enjoyment. These plantings of other species might well be transferred to waters more suited to those species.

According to 1948 and 1949 information, 60 lakes and streams included in the census produced the popular rainbow trout in proportions greater than 50 percent. Hatchery records show that in 30 of these waters rainbows were the only trout planted in the three years. Twenty-four received other species of trout, cutthroat, brown, and eastern brook, as well as the rainbow, while eleven received no plantings of rainbow. In thirteen cases, species other than rainbow planted in these waters contributed less than five percent to the angler's catch. When a particular water is producing rainbow trout in numbers greater than 50 percent of the total catch, creel returns of the other species planted should be thoroughly examined if the maximum amount of good is to come from fish stocked.

Examining the cutthroat column for the 1948 and 1949 census, it is seen that there were 30 bodies of water wherein the cutthroat constituted more than 50 percent of the catch. Thirteen of these received no releases of hatchery-raised cutthroats in the years 1946, 1947, and 1948. In eleven instances, other species were planted in these waters. It would appear that these 30 bodies of water are well suited to Montana's native trout, and that there would be justification for encouraging the cutthroat, and planting the other species of trout where they appear in the catch to a greater degree.

Examination of trout from Montana's lakes and streams where both rainbow and cutthroat exist indicates that hybridization between these species is rather common. They do cross breed. It is known for many crosses between fish, that, like the mule, the offspring are sterile. While investigation is under way, there is as yet no conclusive evidence that the rainbow-cutthroat cross does or does not produce partially sterile offspring. In twelve of the 60 streams where rainbow were dominant, cutthroat were planted; and in nine of the 30 streams where cutthroat were dominant, rainbow were planted. Until conclusive evidence is available, it would seem wise to follow a safe and certain road and plant either rainbow or cutthroat and not both in one body of water.

The information in the foregoing paragraphs is summarized in Table 1.

Table 1. - - Summary figures for 1948-1949 state-wide creel census.

	Species constituting over 50 percent of catch			
	Rainbow	Cutthroat	Eastern Brook	Brown
(1) Number of streams in census where species made up over 50 percent of catch.	60	30	56	5
(2) Number of streams in (1) not planted to dominant species.	11	13	27	2
(3) Number of streams in (2) planted with other species of trout.	5	4	19	1
(4) Number of streams in (1) planted with species of trout besides the dominant species.	24	11	29	4
(5) Number of streams in (1) planted with dominant species only	30	10	19	-
(6) Number of streams in (1) either where both rainbow and cutthroat were planted or where one was planted where the other was dominant.	12	9	8	-
(7) Number of streams in (1) where a species planted constituted less than 5 percent of the catch.	13	1	16	-

Note: Plantings refer only to years 1946, 1947, and 1948.

Practical answers to fish management questions can be gained from studying the composition of fishermen's catches. The fish composition will change in many of our streams and lakes as watershed conditions, irrigation needs, fishing pressure, and other factors change. Creel census will disclose these changes, their directions, and their magnitudes. A flexible planting program is needed that management may keep abreast of natural fluctuations. Creel census, as has been discussed, will enable the Fish and Game Department--

1. to discontinue planting species of fish that do not appear materially or do not appear at all in the catch,
2. to plant the species of fish that will give the angler the greatest return, and
3. to prohibit the introduction of new species of fish that prior knowledge shows are incompatible with resident fish.

It will be noted in the tables that catch per hour has been calculated wherever possible; that is, the Fish and Game Department is anxious to know the number of fish that the average angler catches in one hour's fishing on as many lakes and streams in the state as possible. It is a common conception of many persons that catch per hour will mean nothing since it is so variable for each person. True, a good fisherman may catch his limit on a stream in a few hours, while an inexperienced angler may catch no fish. Catch per hour, as the Department will use it, must be an average for many,many fishermen, good ones and less experienced ones. It will, then, show the fishing success of just an average fisherman, or it will show how good fishing is on the average.

A comparison of the catch per hour for one body of water year after year will show whether fishing is improving or getting poorer. If catch per hour decreases over a period of years, this will indicate trouble and will call for a change in management.

Thus it should be clear that the state-wide census is necessary for better fishery management. This comprehensive census is not a cure-all; it is an indicator. It is not a method of diagnosing troubles; it is a method of discovering them. Biological investigations have to be instigated to disclose the actual source so that corrective management measures may be taken.

THE LONG RANGE VIEWPOINT

The Montana Fish and Game Department has the tremendous responsibility of maintaining good fishing in the face of increasing fishing pressure, while a multitude of man-made factors is reducing the productivity of the waters. While the main Department effort in fishery management has been the hatchery system, numerous other management methods have been given a certain amount of emphasis. The fishermen's sole desire is to have good fishing. For this to become a reality, every available management tool must be given full attention with no bias toward one or two. These tools which are available to fishery managers include the following:

1. Hatchery fish production based on maximum return for dollars invested.

2. Flexible and completely sound fishing regulations.

3. Installation of irrigation ditch screens where need is demonstrated.

4. Carrying-capacity of waters increased to support and produce desirable fish by--
    a. Rough fish control where practical and necessary.
    b. Complete eradication of harmful species by poisoning certain waters.
    c. Installation of stream and lake improvement devices.
    d. Fertilization of certain small ponds and lakes.

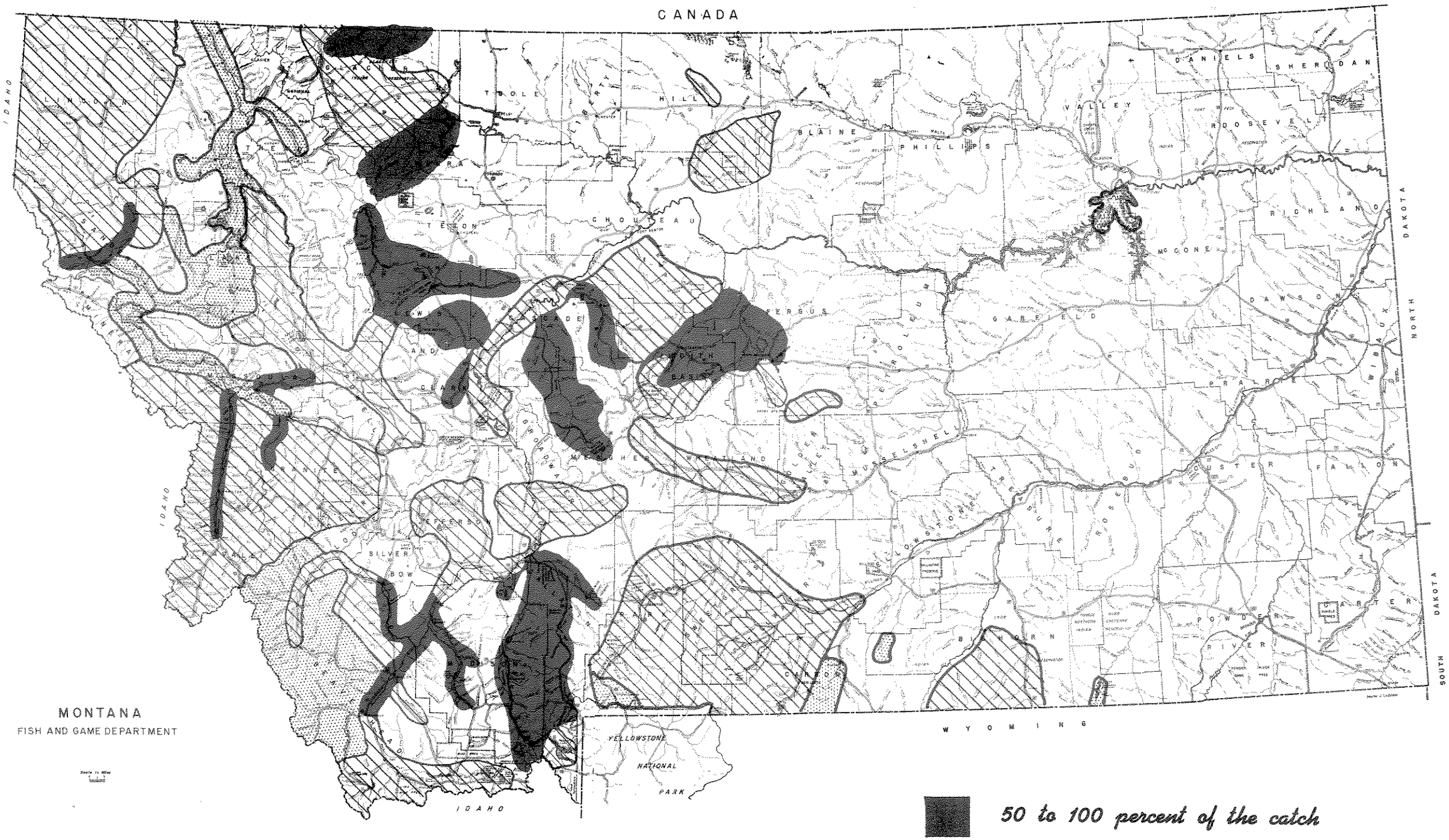
5. Introduction of fish and proper management of stock-water reservoirs and other impounded waters to produce new fishing areas.

Yes, fishery managers must utilize every tool at their disposal to maintain high quality fishing. Since conditions are ever changing, there must be a constant check to indicate the need for changes in management and also to evaluate the success of such changes. Creel census is the constant check which will indicate efficient management. This basic source of information is highly essential. The angler will reap the benefit!

APPENDIX A

Distribution of rainbow trout, brown trout, cutthroat trout, and eastern brook trout as shown by the 1948 and 1949 state-wide creel census.

Rainbow Trout Distribution



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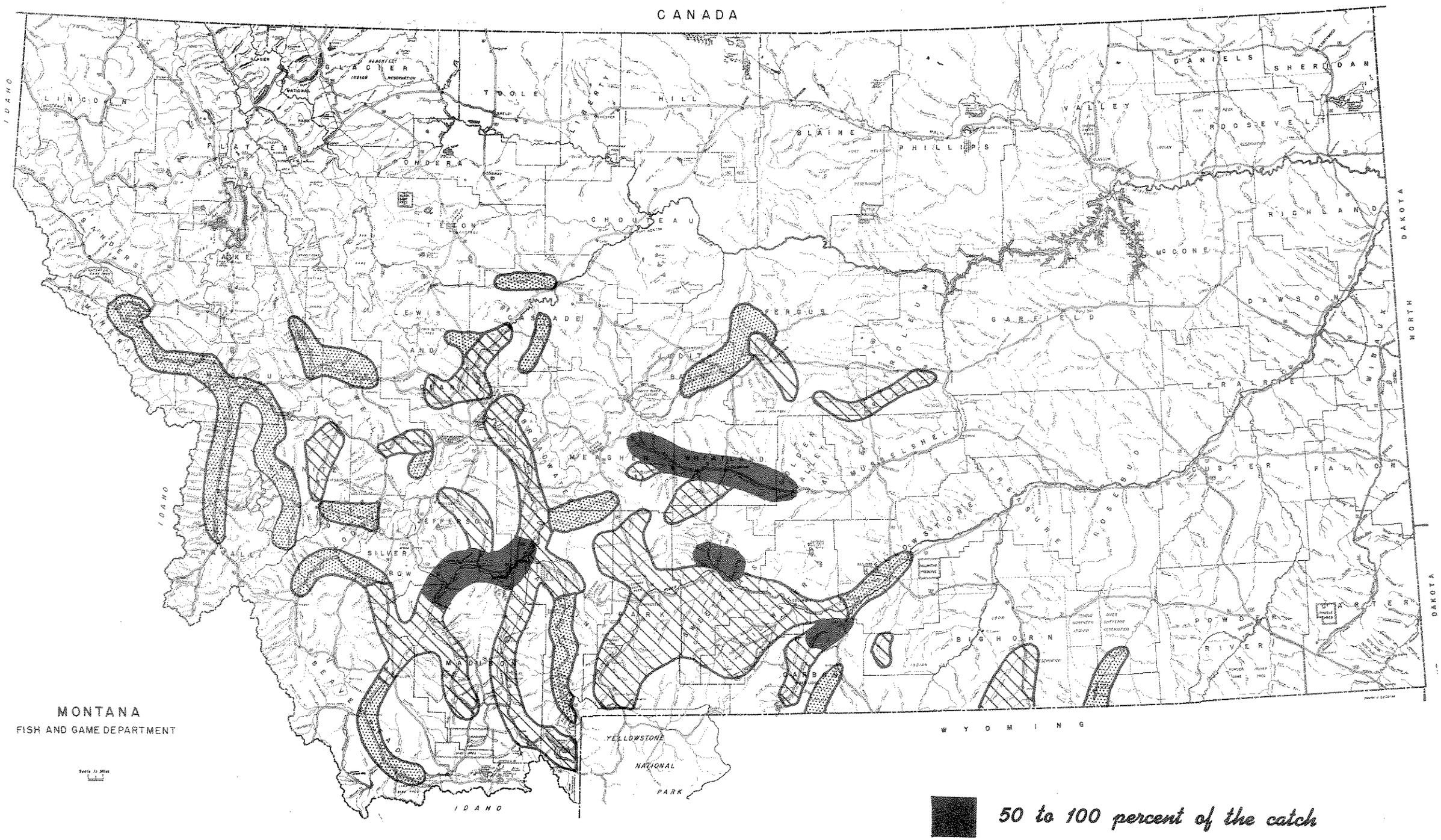
Scale in Miles

50 to 100 percent of the catch

5 to 49 percent of the catch

Less than 5 percent of the catch

Brown Trout Distribution



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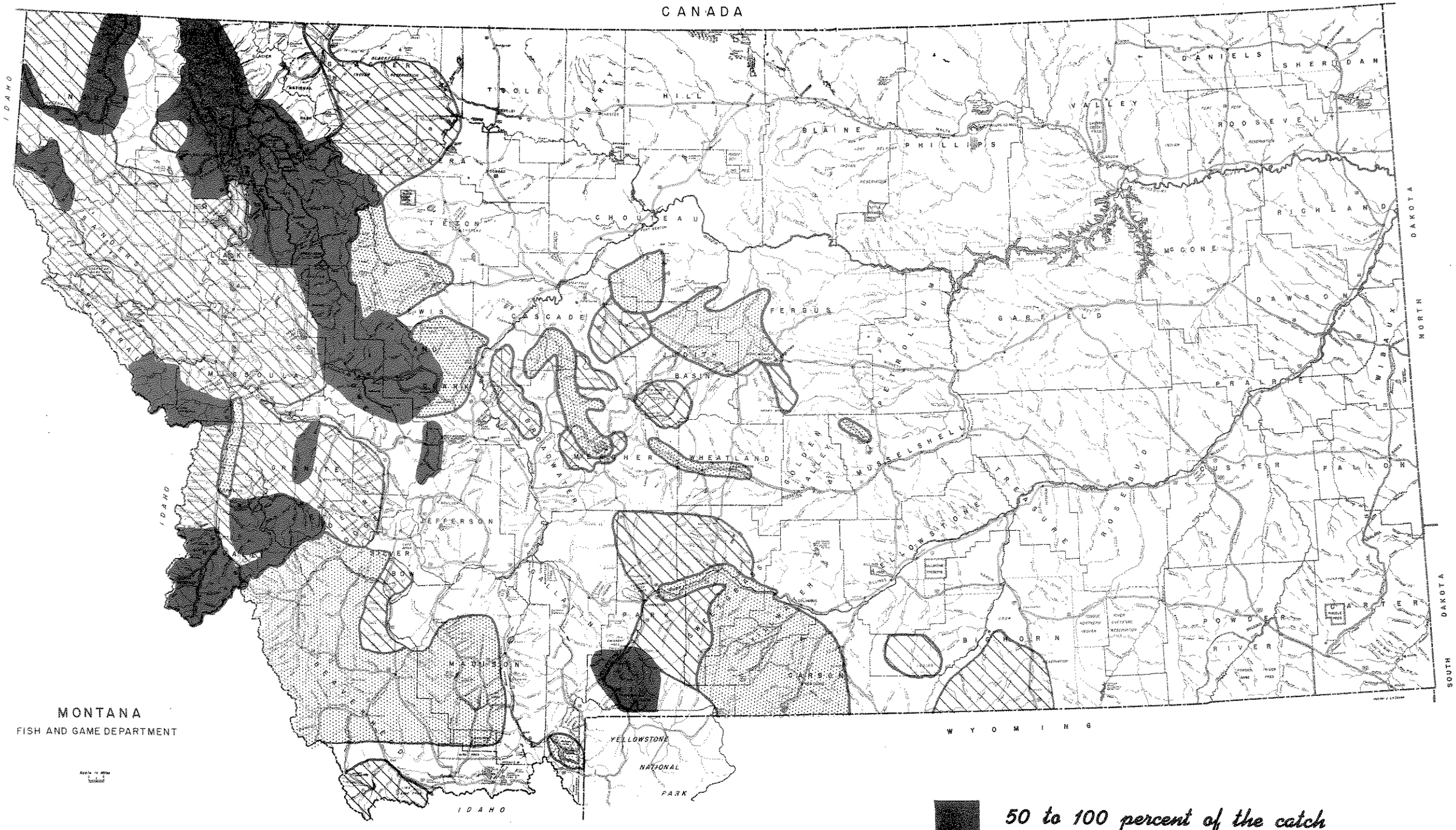
Scale in Miles

50 to 100 percent of the catch

5 to 49 percent of the catch

Less than 5 percent of the catch

Cutthroat Trout Distribution



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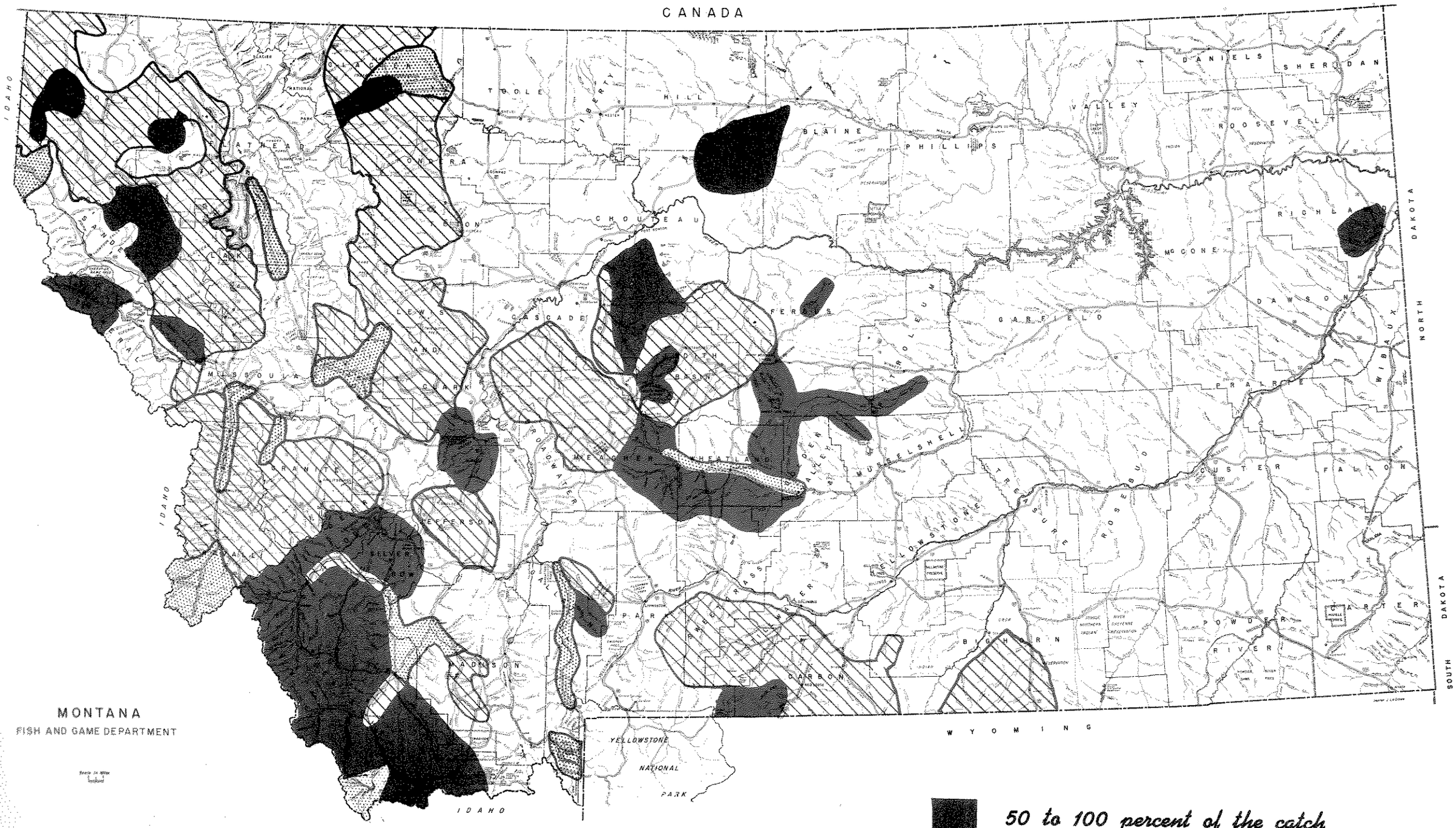
Scale in Miles

50 to 100 percent of the catch

5 to 49 percent of the catch

Less than 5 percent of the catch

Eastern Brook Trout Distribution



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50 to 100 percent of the catch

5 to 49 percent of the catch

Less than 5 percent of the catch

APPENDIX B

Creel Census Summary Tables Through 1949.

Key:

Br - Brown trout.
Ct - Cutthroat trout.
Eb - Eastern brook trout.
Gr - Grayling.
Lt - Lake trout.
Rb - Rainbow trout.
SS - Sockeye salmon (kokanee).

Beaverhead River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Alder Gulch	1948	Madison	126	302	1.3	374	94.9	9.1				20	5.1	9.2							Gr.	12,800	Rb.	23,430	Rb.	12,000
	1949	Madison	109	277	0.8	209	100.0	8.7																		
Beaverhead River	1941	Madison	38	—	—	52	59.1	—				36	40.9	—							Br.	111,720			Br.	16,470
	1942	and	76	—	—	175	77.8	—				49	21.8	—	1	0.4	—				Rb.	69,280	Rb.	42,840	Rb.	24,000
	1948	Beaverhead	429	1972	0.7	1250	91.4	11.3				63	4.6	9.8	55	4.0	11.8									
	1949		191	409	1.5	516	83.5	11.6				14	2.3	10.0	88	14.2	11.8									
Blacktail Creek	1941	Beaverhead	17	—	—							81	100.0	—							Ct.	8,340	Ct.	14,259	Rb.	18,000
	1948	Beaverhead	136	206	1.9	32	8.0	10.1				366	92.0	9.5												
	1949	Beaverhead	46	96	2.7	60	22.6	9.3				205	77.4	9.5												
Bloody Dick Creek	1948	Beaverhead	159	792	2.1				17	1.0	9.1	1619	99.0	9.4							Ct.	7,645			Rb.	3,816
	1949	Beaverhead	106	363	3.0	14	1.3	12.0	7	0.7	9.0	1052	98.0	9.0												
Grasshopper Creek	1949	Beaverhead	49	117	2.4	4	1.4	9.0	7	2.5	9.0	273	96.1	10.5							Rb.	15,520	Ct.	16,980		
Nicholia Creek	1948	Beaverhead	56	204	2.0	114	28.4	10.1	288	71.6	9.6															
	1949	Beaverhead	34	158	1.6	40	15.6	10.1	217	84.4	10.1															
Red Rock River	1948	Beaverhead	89	330	1.7	92	16.3	11.5				466	82.3	8.7				8	1.4	10.1	Rb.	9,600			Rb.	10,000
	1949	Beaverhead	171	476	2.3	94	8.6	11.9				876	80.3	8.8	8	0.7	11.8	113	10.4	12.2						
Ruby River	1941	Madison	29	—	—	83	93.3	—							6	6.7	—				Br.	40,000	Rb.	14,360	Rb.	23,000
	1942	Madison	52	—	—	11	36.7	—							19	63.3	—				Ct.	12,880				
	1948	Madison	122	310	0.7	181	78.7	11.3				14	6.1	9.0	35	15.2	12.4				Rb.	31,140				
	1949	Madison	20	43	0.9	24	63.2	12.0							14	36.8	13.9									
Sheep Creek (near Dell)	1948	Beaverhead	171	759	0.9	656	100.0	9.5															Rb.	16,000	Rb.	2,000
																							Ct.	7,510		
	1949	Beaverhead	132	486	1.8	847	99.3	10.4				6	0.7	9.0												
Deadmans Lake	1949	Beaverhead	26	126	1.4				179	100.0	11.7															
Morrison Lake	1948	Beaverhead	18	87	0.3	13	54.2	15.6	11	45.8	15.7										Ct.	2,568				
	1949	Beaverhead	32	122	0.4	35	67.3	15.8	17	32.7	13.1										Rb.	1,080				
Ruby Lake	1949	Madison	24	181	0.9	88	55.7	13.0	12	7.6	14.0				58	36.7	12.9				Rb.	4,400	Rb.	2,520	Rb.	4,320

Big Hole River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Big Hole River Sec. I (Headwaters to Pintlar Cr.)	1948	Beaverhead	68	322	1.6	33	6.3	11.9	8	1.5	11.1	347	66.5	10.2				134	25.7	11.0	Rb.	12,600			Rb.	930
																					Gr.	150,000			Ct.	2,080
	1949	Beaverhead	75	313	1.8	112	19.8	13.7	16	2.8	11.5	377	66.5	9.9				62	10.9	10.0						
Big Hole River Sec. II (Pintlar Cr. to Divide)	1948	Beaverhead	88	399	1.3	290	57.4	11.1	6	1.2	9.0	104	20.6	10.4	15	3.0	14.1	90	17.8	9.8	Rb.	62,550			Rb.	11,680
																					Gr.	800,000	Gr.	180,000	Gr.	1,006,600
	1949	Deer Lodge and Silver Bow	72	253	0.9	112	49.3	12.2	12	5.3	9.4	43	19.0	11.0	18	7.9	14.4	42	18.5	9.8						
Big Hole River Sec. III (Divide to Mouth)	1948	Beaverhead	306	1336	0.5	326	54.0	13.4	1	0.2	9.0	4	0.6	11.0	273	45.2	14.7				Rb.	8,640	Rb.	9,300	Rb.	98,000
																							Br.	7,200	Br.	172,800
	1949	Silver Bow and Madison	499	1086	1.1	733	59.2	12.0				5	0.4	12.6	501	40.4	12.9									
Canyon Creek (Maiden Rock)	1949	Beaverhead	25	76	2.4	34	19.0	9.8	54	30.2	9.5	91	50.8	9.5											Ct.	8,320
La Marche Creek	1949	Deer Lodge	14	50	1.6	9	11.1	12.2	7	8.6	12.0	65	80.3	10.4									Rb.	1,550	Ct.	20,800
North Fork Big Hole River	1949	Beaverhead	22	78	2.2	9	5.3	14.1	8	4.8	13.1	131	78.0	10.5				20	11.9	10.0	Gr.	175,000	Rb.	9,300	Gr.	250,000
Ruby Creek	1949	Beaverhead	17	49	2.3				7	6.1	10.0	108	93.9	8.8							Ct.	21,468			Ct.	10,400
Trail Creek	1949	Beaverhead	28	100	2.0	3	1.4	12.0	23	11.3	9.2	174	85.3	9.0				4	2.0	10.0	Ct.	28,624			Ct.	4,160
Warm Springs Creek	1949	Beaverhead	9	36	2.8				18	18.2	11.5	80	80.8	11.3				1	1.0	12.0			Ct.	800		
Lake Agnes	1949	Beaverhead	121	318	4.4	13	1.0	14.0							9	0.7	14.0	1370	98.3	9.2					Gr.	40,000

Bitterroot River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Dolly Varden No.	Dolly Varden %	Dolly Varden Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Bitterroot River	1941	Ravalli	124	—	—	16	6.7	—	211	88.3	—	12	5.0	—															
	1948	Ravalli	217	1029	0.3	210	79.6	13.2	36	13.6	13.3	9	3.4	14.2	9	3.4	14.5							Rb.	9,280	Rb.	8,080	Rb.	62,980
																												Br.	68,224
	1949	Ravalli	38	127	0.7	74	86.1	11.6	5	5.8	14.0	5	5.8	10.5	2	2.3	16.0												
Burnt Fork Bitterroot	1949	Ravalli	20	83	1.2				72	75.0	7.7	8	8.3	8.6							16	16.7	8.0			Ct.	17,400	Ct.	15,000
																										Rb.	2,800	Rb.	2,400
East Fork Bitterroot	1941	Ravalli	43	—	—	18	42.5	—	18	42.5	—	17	15.0	—															
	1942	Ravalli	24	—	—	5	8.1	—	45	72.6	—	12	19.3	—										Rb.	9,200	Ct.	10,800	Rb.	17,968
	1948	Ravalli	128	383	0.7	57	21.6	9.3	190	72.0	9.0	17	6.4	7.3										Ct.	14,730			Ct.	103,000
	1949	Ravalli	123	516	—	152	43.4	12.2	136	38.9	9.2	57	16.3	7.7							5	1.4	8.2						
West Fork Bitterroot	1941	Ravalli	31	—	—	20	12.7	—	137	87.3	—																		
	1948	Ravalli	40	143	0.9	24	19.0	8.5	97	77.0	9.8	4	3.2	7.0	1	0.8	8.0							Rb.	14,000			Rb.	3,600
																								Ct.	24,550	Ct.	16,000	Ct.	57,200
	1949	Ravalli	51	190	0.8	44	28.6	9.3	109	70.8	8.5	1	0.6	9.0															

Blackfoot River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Dolly Varden No.	Dolly Varden %	Dolly Varden Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Blackfoot River Sec. II (Arrastra Creek to Clearwater River)	1948	Powell Missoula	35	124	0.3	12	27.9	11.0	28	65.1	10.4	2	4.7	9.0	1	2.3	11.0				Rb.	2,000	Rb.	14,050	Rb.	6,000
Blackfoot River Sec. III (Clearwater River to mouth)	1941	Missoula	96	---	---	63	63.6	---	36	36.4	---										Rb.	30,000	Rb.	14,825	Rb.	22,100
	1948	Missoula	102	403	0.4	101	60.1	10.3	67	39.9	11.5												Ct.	4,000		
	1949	Missoula	60	277	0.3	67	87.0	10.9	8	10.4	10.9							2	2.6	11.5						
Clearwater River	1948	Missoula	31	147	0.4	28	50.9	11.1	27	49.1	9.0												Rb.	5,220		
	1949	Missoula	112	479	0.4	71	38.8	11.7	70	38.3	11.0	11	6.0	9.8	2	1.1	13.5	29	15.8	16.5						
Nevada Creek	1948	Powell	68	272	1.7	22	4.7	9.5	331	71.0	9.5	113	24.3	9.4							Ct.	2,100	Ct.	2,000		
N. Fork Blackfoot River	1949	Powell Lewis and Clark	38	358	1.0	70	19.0	12.0	297	80.7	10.8							1	0.3	13.0			Rb.	4,650	Rb.	6,000
Lake Alva	1948	Missoula	16	106	0.3	1	2.9	12.0	34	97.1	11.8												Ct.	10,450	Rb.	3,000
	1949	Missoula	10	30	0.6	1	5.9	12.5	16	94.1	11.3															
Placid Lake	1949	Missoula	87	310	0.5	26	17.6	13.0	119	80.4	13.3							3	2.0	12.0			Ct.	15,050	Rb.	17,500
Salmon Lake	1948	Missoula	53	137	0.7	36	37.5	9.6	50	52.1	12.5	9	9.4	10.0	1	1.0	11.0						Ct.	10,000		
	1949	Missoula	72	346	0.9	68	21.9	11.0	230	74.0	11.7							12	3.8	14.1						
Seeley Lake	1948	Missoula	45	129	0.4	1	2.0	11.0	49	94.2	12.5							2	3.8	14.0			Ct.	19,800	Rb.	18,200
	1949	Missoula	63	305	0.4	23	20.9	14.1	84	76.4	12.0							3	2.7	16.3						

Clark Fork River Drainage

Browns Gulch	1949	Silver Bow	15	18	1.5							27	100.0	8.7									Eb.	7,200	Eb.	1,050
Bull River	1949	Sanders	33	99	0.6	26	43.3	10.1	25	41.7	10.9	1	1.7	12.0				8	13.3	27.9	Ct.	8,400	Ct.	4,500	Ct.	30,000
Clark Fork River III (Mouth of Rock Creek near Bonita to mouth of Flathead)	1949	Missoula Mineral Sanders	41	95	0.3	15	62.5	10.8										9	37.5	15.3	Br.	21,000	Br.	190,524	Br.	107,160
Clark Fork River IV (Flathead River to Idaho)	1949	Sanders	83	184	0.3	40	62.5	12.5	21	32.8	11.4							3	4.7	10.0					Br.	138,400
Dutchman Creek	1949	Deer Lodge	16	33	1.5							19	38.8	8.5	30	61.2	10.2									
East Fork Rock Creek	1948	Granite	69	164	0.9	8	5.5	11.5	110	75.9	9.7	27	18.6	8.2							Ct.	7,120				
Flint Creek Sec. II (Below Georgetown Lake)	1948	Granite	56	128	1.9	3	1.2	8.0	108	44.6	9.6	44	18.2	8.0	87	36.0	10.0				Br.	64,800	Br.	2,940		
	1949	Granite	21	60	1.1	3	4.5	10.0	17	25.4	8.4	19	28.3	8.2	28	41.8	10.7						Ct.	8,000		
Harvey Creek	1948	Granite	28	97	3.1				299	99.7	8.3	1	.3	---									Eb.	11,400		
	1949	Granite	13	49	3.0				145	97.3	11.4							4	2.7	11.0						
Lost Creek	1948	Deer Lodge	73	138	0.6	36	45.6	9.5	7	8.8	10.9	36	45.6	8.0												
	1949	Deer Lodge	20	22	1.2	2	7.8	10.0	12	46.1	8.4				12	46.1	11.2				Br.	26,400	Br.	7,200	Br.	12,330

Clark Fork Columbia River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Dolly Varden No.	Dolly Varden %	Dolly Varden Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Mill Creek	1949	Deer Lodge	22	25	0.7	3	16.7	7.0				15	83.3	7.6							Ct.	5,000	Ct.	16,000	Ct.	10,400
Prospect Creek	1942	Sanders	95	—	—	28	24.8	—	57	50.4	—	2	1.8	—				26	23.0	—						
	1948	Sanders	31	71	3.8	107	39.9	8.3	159	59.4	7.7	2	0.7	6.5							Ct.	6,520			Ct.	15,000
	1949	Sanders	27	160	0.8	35	47.3	8.3	27	36.5	8.3							12	16.2	20.8						
Rock Creek (South of Bonita)	1948	Granite	415	1920	0.7	437	35.0	10.4	659	52.7	10.0	136	10.9	8.6	17	1.4	—				Rb.	8,640	Rb.	24,028	Rb.	94,772
Rock Creek Sec. I (Above Hogsback Creek)	1949	Granite	80	382	0.9	142	43.0	9.9	148	44.9	9.8	29	8.8	10.0	9	2.7	10.0	2	0.6	—						
Rock Creek Sec. II (Below Hogsback Creek)	1949	Granite	137	823	0.3	160	69.9	10.1	20	8.7	9.6	4	1.8	9.0	3	1.3	14.0	42	18.3	12.3						
Rock Creek (N. E. of Furlong)	1949	Sanders	16	41	3.3	18	13.2	8.0	118	86.8	8.2															
St. Regis River	1949	Mineral	169	963	0.5				154	34.5	11.4	258	57.9	7.7				34	7.6	8.1	Br.	6,872	Br. Ct.	7,870 45,920		
Thompson River II (Below Bend Ranger Station)	1949	Sanders	33	113	2.8	241	75.6	8.9	38	11.9	8.7	8	2.5	8.3				32	10.0	9.6		?		?		?
Vermillion Creek	1949	Sanders	16	35	2.9	51	50.0	8.7	47	46.1	8.8							4	3.9	31.5					Ct.	2,000
Warm Springs Creek	1948	Deer Lodge	49	116	1.3	23	15.4	9.5	17	11.4	8.6	97	65.1	8.5	12	8.1	10.0				Rb. Br.	3,360 7,200	Rb. Eb.	4,560 2,100	Eb. Ct. Br.	5,952 420 4,800
West Fork Rock Creek	1948	Granite	17	24	1.1				31	91.2	7.5	3	8.8	7.5												
	1949	Granite	7	34	0.9				26	89.7	7.8							3	10.3	8.0	Ct.	10,650			Ct.	10,000
Willow Creek (near Hall)	1949	Granite	21	60	2.4				28	19.7	8.3	90	63.4	8.2	24	16.9	9.5									
East Fork Reservoir	1948	Granite	36	151	0.3	35	74.5	15.7	1	2.1	14.0	2	4.3	12.0				9	19.1	13.5						
	1949	Granite	30	133	0.5	29	63.0	14.5	2	4.4	13.0	1	2.2	10.0				14	30.4	14.1	Rb.	7,200	Rb.	7,850	Rb.	1,728
															Silver Salmon			Grayling								
Georgetown Lake	1948	Deer Lodge and Granite	566	2012	0.2	162	42.4	15.3	186	48.7	12.1	21	5.5	11.2				13	3.4	8.5	Rb. Ct. Gr.	94,504 51,114 150,000	Ct. Gr.	64,636 75,000	Rb. Gr.	16,974 16,950
	1949	Deer Lodge and Granite	101	380	1.0	119	31.0	16.1	130	33.8	14.4	3	0.8	12.7	112	29.2	11.9	19	4.9	12.2						
										One Dolly Varden 0.3% and 12 inches long.															
	Dec. 1949	Deer Lodge and Granite	169	283	4.2	34	2.9	13.0	12	1.0	11.5				1130	95.5	10.6	7	0.6	12.7						
Surveyor Lake	1949	Mineral	18	222	0.2	40	100.0	18.9																	Rb.	12,600

Flathead River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Dolly Varden No.	Dolly Varden %	Dolly Varden Size	Sockeye Salmon No.	Sockeye Salmon %	Sockeye Salmon Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Flathead River Sec. I (Forks to Flathead Lake)	1949	Flathead	92	356	0.9	2	0.6	7.5	282	92.2	10.0				22	7.2	18.4						Ct.	61,016	Ct.	145,572
Flathead River Sec. II (Flathead Lake to Mouth)	1949	Flathead	59	103	1.0	1	1.0	14.0	99	97.0	12.2				2	2.0	16.5									
Goat Creek	1948	Lake	24	37	2.4				81	90.0	8.0	9	10.0	8.0											Ct.	2,200
	1949	Lake	8	10	4.6				40	87.0	8.2	6	13.0	7.7												
Jocko River	1948	Sanders	129	313	1.6	169	34.8	8.9	268	55.1	10.0	47	9.7	8.0	2	0.4	10.5						Rb.	40,000		
	1949	Lake Missoula	75	135	1.9	44	17.5	9.6	191	76.1	8.8	5	2.0	8.6	11	4.4	10.1									
Mid Fork Flathead	1949	Flathead	93	481	1.3				593	95.3	9.6	10	1.6	8.0	19	3.1	17.9									
N. Fork Flathead River	1948	Flathead	58	214	1.7	7	1.9	8.0	349	96.2	9.6				7	1.9	25.8				?		?		Ct.	27,257
	1949	Flathead	175	586	1.8				1053	98.9	9.6				12	1.1	13.7									
S. Fork Flathead River	1948	Flathead	46	112	1.7				187	100.0	11.1												Ct.	50,000		
	1949	Flathead	31	97	2.4				218	94.0	12.4				14	16.0	16.7									
Sunday Creek	1949	Flathead	22	64	3.6							230	100.0	7.7											Eb.	10,000
Swan River Sec. I (Headwaters to Swan Lake)	1948	Lake and	79	230	1.0	41	17.8	12.2	156	67.8	10.2	9	3.9	6.5	24	10.5	12.0								Ct.	82,720
	1949	Missoula	124	510	1.2	187	30.0	9.5	393	63.1	9.8	20	3.2	8.4	23	3.7	12.4								Rb.	32,600
Swan River Sec. II (Swan Lake to Mouth)	1949	Lake and Missoula	32	62	1.3	6	7.7	8.8	72	92.3	10.5															
Youngs Creek	1948	Powell	55	183	3.4	90	14.4	9.9	459	73.3	10.8	75	12.0	13.0	2	0.3	19.0									
Echo Lake	1948	Flathead	13	34		No trout reported, only warm water fish.															Eb.	3,100			Eb.	8,750
	1949	Flathead	71	323		No trout reported, only warm water fish.																				
Flathead Lake	1949	Flathead and Lake	1484	4680	1.1	19	0.4	16.0	602	12.0	12.6	Lake Trout 2	0.04	26.0	190	3.8	17.6	4203	83.8	12.2	Ct.	176,290	Ct.	155,250	Ct.	263,140
																					Rb.	458,200	Rb.	247,350	Rb.	569,656
																					SS.	1,460,700	SS.	2,268,800	SS.	2,271,710
Huntsberger Lake	1949	Flathead	29	125	2.9				362	100.0	9.7															
Swan Lake	1949	Lake	86	677	0.6	81 4 Browns	20.8	11.0 1.0# 10.2" long	260	66.7	9.5	E. Brook Trout 4	1.0	10.0	33	8.5	11.2	8	2.0	9.2					Ct.	82,720
																									Rb.	32,600
Whitefish Lake	1949	Flathead	51	196	0.8				48	29.8	9.7	Lake Trout 33	20.5	21.2	3	1.9	18.3	77	47.8	12.4	SS.	525,000	SS.	500,000	SS.	200,000
																					Ct.	70,000	Eb.	20,000	Ct.	40,000
																									LT	22,400

Gallatin River Drainage

												E. Brook Trout			Brown Trout					
W. Fork Gallatin I (Headwaters to Spanish Cr.)	1948	Gallatin	95	196	1.0	182	92.0	10.0	6	3.0	9.3	4	2.0	11.0	6	3.0	12.3			
	1949	Gallatin	109	352	1.6	543	95.8	10.6	4	0.7	11.5	7	1.2	10.4	13	2.3	14.7	?	?	?
W. Fork Gallatin II (Spanish Creek to mouth)	1949	Gallatin	141	358	1.8	501	78.2	11.3	32	5.0	10.6	58	9.0	10.6	50	7.8	12.0	?	?	?

Kootenai River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Fisher River	1949	Lincoln	20	65	1.1	58	79.5	11.1	15	20.5	9.8										Rb.	3,360			Ct.	9,000
																					Ct.	4,200				
Kootenai River	1949	Lincoln	30	115	0.5	11	13.4	11.1	51	62.2	11.5														Ct.	100,000
Swamp Creek (near Libby)	1948	Lincoln	68	119	1.6	14	7.1	7.9	14	7.1	7.0	168	85.8	7.2												
Yaak River	1948	Lincoln	118	340	1.5	265	51.2	9.5	144	27.8	9.0	109	21.0	8.6							Eb.	5,680	Eb.	10,000	Ct.	50,000
	1949	Lincoln	51	145	1.9	170	56.7	9.9	26	13.3	8.0		Plus 78 trout								Rb.	13,400	Ct.	10,000		
Kilbrennan Lake	1948	Lincoln	13	37	1.9	22	31.0	13.2				49	69.0	10.2							Eb.	6,900	Eb.	6,000	Eb.	10,000
	1949	Lincoln	41	118	2.0	20	8.3	12.0				221	91.7	11.5												

Madison River Drainage

Madison River Sec. II (Canyon below Hebgen Dam)	1949	Gallatin and Madison	167	581	1.7	519	65.0	14.3	plus 148 trout			1	0.1	12.0	278	34.8	16.6	1	0.1	12.0					Rb.	2,820
Madison River Sec. III (Canyon to Meadow Lake)	1941	Madison	92	—	—	73	76.8	9.4							22	23.2	12.3				Rb.	39,750	Rb.	17,400	Rb.	21,410
	1942	Madison	174	—	—	215	71.4	12.2	10	3.3	8.0				76	25.3	14.0				Gr.	2,100				
	1948	Madison	1109	3001	0.6	1275	67.9	13.0							601	32.0	13.5	1	0.1	10.0						
	1949	Madison	586	1771	0.8	947	67.6	13.3							452	32.3	14.5	1	0.1	—						
Madison River Sec. IV (Meadow Lake to mouth)	1949	Madison and Gallatin	40	89	0.8	52	72.2	12.5							20	27.8	13.3								Br.	36,120
Axolotal Lakes	1949	Madison	22	74	0.9	66	100.0	12.6															Rb.	1,920		
Cliff Lake	1949	Madison	23	149	0.7	103	100.0	12.5													Rb.	8,140	Rb.	57,780	Rb.	22,127
Hebgen Lake	1947	Gallatin	—	3828	0.3	785	60.9	15.6	38	2.9	16.9				466	36.2	14.6				Rb.	4,150	Rb.	10,440	Rb.	18,932
	1948	Gallatin	1050	4362	0.7	1402	49.4	15.0	57	2.0	14.7	1	—	10.0	1377	48.5	14.3	4	0.1	14.0			Br.	63,000		
	1949	Gallatin	4008	16753	0.5	4332	47.9	15.6	81	0.9	15.9	12	0.1	12.4	4618	51.0	15.0	5	0.1	15.1						
Hidden Lake	1948	Madison	37	228	1.2	279	100.0	13.3													Rb.	14,640	Rb.	2,832		
	1949	Madison	16	102	0.8	84	100.0	15.8																		
Meadow Lake	1948	Madison	42	199	0.8	127	83.0	14.1							26	17.0	14.5									
	1949	Madison	503	1850	0.6	283	70.9	15.2	plus 638 16.3" trout						116	29.1	14.2									
Wade Lake	1949	Madison	65	220	0.4	47	52.8	16.0							42	47.2	15.7				Rb.	4,070	Rb.	1,800	Rb.	11,403

Marias River Drainage

Lower Two Medicine Lake	1948	Glacier	17	47	0.4	16	88.9	11.0				2	11.1	—							Rb.	6,600	Rb.	1,000	Rb.	7,680
	1949	Glacier	12	28	1.4	21	52.5	13.5				19	47.5	9.3												

Milk River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Beaver Creek	1942	Hill	119	---	---	217	35.9	---				388	64.1	---												
	1943	Hill	60	---	---	54	24.0	---				171	76.0	---												
	1948	Hill	132	304	2.2	225	34.2	8.6				432	65.8	8.1												
	1949	Hill	116	198	1.5	69	22.8	8.0				234	77.2	8.0												
Clear Creek	1942	Blaine	30	---	---	61	50.4	---				60	49.6	---												
	1943	Blaine	20	---	---	29	26.1	---				82	73.9	---												
	1948	Blaine	98	341	1.9	115	17.5	8.3				543	82.5	8.1												
Milk River Sec. II (Fresno Dam to Havre)	1949	Hill	121	204	0.8	161	100.0	14.5																	Br.	45,000
S. Fork Milk River	1949	Glacier	49	183	1.7	140	45.2	11.2	17	5.5	10.1	153	49.3	9.2									Eb.	10,400	Rb.	14,000
Fresno Lake	1942	Hill	45	---	---	38	100.0	---													Rb.	16,940	Rb.	14,780	Rb.	33,200
	1943	Hill	46	---	---	29	100.0	---																		
	1948	Hill	104	290	0.2	52	100.0	14.3																		
	1949	Hill	199	422	0.1	50	100.0	14.8																		

Missouri River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Arrow Creek	1948	Judith Basin Chouteau	---	---	---	237	49.6	8.4	30	6.3	7.0	211	44.1	8.0							Eb.	8,400	Rb.	8,404		
	1949	and Fergus	31	94	1.6	67	44.7	8.7				83	55.3	9.0									Eb.	1,400		
Battle Creek	1949	Meagher	30	64	4.4							283	100.0	8.5							Eb.	10,000				
Belt Creek	1948	Cascade	---	---	---	163	86.7	10.3				25	13.3	8.4							Rb.	2,800	Rb.	2,500	Rb.	5,250
Big Spring Creek	1948	Fergus	132	338	2.2	486	65.7	10.3	1	0.1	10.0	22	3.0	10.8	231	31.2	11.5				Rb.	47,640	Br.	37,800	Rb.	15,820
	1949	Fergus	145	389	1.5	408	69.8	10.7	1	0.2	15.0	1	0.2	7.0	174	29.8	11.8				Ct.	14,600	Ct.	28,200		
																							Eb.	1,200		
																							Rb.	133,240		
Cottonwood Creek (N.E. of Geyser)	1948	Chouteau	---	---	---	223	33.9	7.8				435	66.1	7.4												
	1949	and Judith Basin	37	128	1.8	76	32.3	8.0				159	67.7	8.2												
Cottonwood Creek (W. of Lewistown)	1949	Fergus	32	85	2.3				45	22.8	8.0	152	77.2	8.4									Br.	22,960		
Dry Wolf Creek (near Stanford)	1948	Judith Basin	---	---	---	25	14.5	8.0				147	85.5	8.0							Eb.	3,120	Eb.	1,134	Br.	5,040
	1949	Judith Basin	7	16	2.2							35	100.0	8.0									Ct.	16,500		
																					Eb.	1,640	Ct.	5,800	Br.	2,100
E. Fk. Big Spring Cr.	1948	Fergus	14	30	2.9				14	15.7	9.0	75	84.3	8.4							Eb.	13,080	Rb.	5,620	Rb.	4,000
	1949	Fergus	11	28	1.5	9	22.0	8.7				32	78.0	8.6									Eb.	2,520		
																							Ct.	19,800		
Four Mile Creek	1948	Meagher	28	218	1.5	10	3.0	9.2	296	90.0	9.0	23	7.0	9.0									Ct.	38,000	Ct.	6,550
	1949	Meagher	59	414	1.3				533	100.0	9.0															
Highwood Creek	1948	Chouteau	---	---	---	213	37.4	8.1	9	1.6	7.0	347	61.0	7.5							Eb.	4,500	Eb.	6,020	Eb.	4,000
Hound Creek	1949	Cascade	48	366	1.4	125	23.8	12.5	188	35.8	10.5	212	40.4	9.7							Rb.	2,200	Rb.	5,160	Rb.	16,400

Missouri River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling Trout No.	Grayling Trout %	Grayling Trout Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Jefferson River	1949	Madison Jefferson Broadwater Gallatin	63	140	0.2	4	11.4	13.5							31	88.6	13.1				Br.	55,000			Rb.	10,000
																					Rb.	6,820			Br.	20,811
Judith River Sec. I	1948	Judith Basin	---	---	---	416	73.4	10.3	36	6.3	9.7	115	20.3	10.3							Br.	18,960	Rb.	63,950	Ct.	25,480
(Headwaters to Plum Creek)	1949	and Fergus	76	221	1.8	261	64.3	10.1	1	0.3	10.0	139	34.2	10.8	5	1.2	9.0				Rb.	36,400	Br.	11,460	Rb.	49,560
																							Ct.	9,340		
Lake Creek	1949	Meagher	18	78	3.0							231	100.0	8.6												
Little Belt Creek	1948	Cascade	---	---	---	33	23.1	7.5	21	14.7	7.0	89	62.2	7.4							Eb.	3,600	Eb.	2,250	Rb.	500
	1949	Cascade	31	76	2.3	20	11.6	7.0				152	88.4	7.2												
Logging Creek	1948	Cascade	---	---	---	30	17.5	7.0	20	11.7	7.0	121	70.8	7.1									Eb.	8,000	Eb.	10,000
Middle Fork Judith River	1948	Judith Basin	---	---	---	65	8.9	9.9	312	42.6	9.6	355	48.5	9.4							Ct.	53,940	Ct.	52,000		
Newlin Creek	1949	Meagher	31	82	4.1							336	100.0	9.2									Eb.	20,000	Eb.	10,000
N. Fork Dearborn Creek	1949	Lewis and Clark	28	145	0.6	85	100.0	10.5																		
N. Fork Highwood Creek	1948	Chouteau	---	---	---	36	27.5	7.0				95	72.5	7.2							Eb.	1,500				
	1949	Chouteau	27	67	1.1	4	5.2	7.0				73	94.8	7.0												
Otter Creek	1948	Cascade and	---	---	---	191	34.3	7.5	33	5.9	7.0	333	59.8	7.4							Eb.	4,200				
	1949	Judith Basin	27	58	1.8	38	37.6	7.2				63	62.4	7.3												
Prickley Pear Creek	1948	Lewis and Clark	58	180	0.9	107	63.7	11.0				2	1.2	9.0	59	35.1	13.4				Br.	34,320	Br.	28,000	Br.	23,800
Rock Creek (near Lingshire)	1949	Meagher	31	119	2.8	339	100.0	10.1																	Rb.	10,000
																									Eb.	3,200
Running Wolf Creek	1948	Judith Basin	---	---	---	167	61.2	8.7				106	38.8	8.5							Eb.	5,840				
	1949	Judith Basin	42	148	1.7	126	50.4	8.3				124	49.6	8.0							Rb.	2,340	Rb.	38,420		
Sheep Creek (opposite Pryett Creek)	1948	Cascade	136	652	1.7	624	57.9	10.0	42	3.9	7.9	404	37.5	8.2	7	0.7	13.3									
Sheep Creek (North of Fort Logan)	1949	Meagher	40	236	1.5	355	100.0	9.6															Rb.	17,000	Rb.	5,000
Shonkin Creek	1948	Chouteau	---	---	---	84	22.3	8.6	10	2.6	7.0	283	75.1	7.0												
	1949	Chouteau	47	141	1.0	31	22.5	7.0				107	77.5	7.4							Eb.	4,500	Eb.	3,600	Eb.	5,000
Sixteen Mile Creek	1948	Meagher and	41	257	1.3	71	21.0	9.0				266	79.0	9.0							Rb.	8,200	Rb.	700	Rb.	2,286
	1949	Gallatin	59	200	2.5	140	34.0	11.6	Plus 86 11" trout			257	63.4	9.8	17	3.6	14.6						Br.	20,000	Eb.	20,000
Smith River Sec. I (Headwaters to Hound Creek)	1948	Cascade and	154	892	1.5	976	72.6	11.2	26	1.9	9.0	342	25.4	10.2							Rb.	4,800	Rb.	2,200	Rb.	15,000
	1949	Meagher	97	467	1.8	639	75.5	10.8	11	1.3	9.8	196	23.2	9.9												
South Fork Dearborn River	1949	Lewis and Clark	18	109	1.0	80	75.5	8.4				26	24.5	7.7							Rb.	4,800	Rb.	5,650	Rb.	1,920

Missouri River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size
South Fork Highwood Creek	1948	Chouteau	—	—	—	54	24.0	7.1				171	76.0	7.2			
	1949	Chouteau	53	113	1.1	40	26.3	7.0	11	7.2	7.0	101	66.5	7.0			
South Fork Judith River	1948	Judith Basin	—	—	—	88	48.6	7.9	15	8.3	7.5	78	43.1	8.4			
South Fork Smith River	1948	Meagher	43	158	2.1							334	100.0	9.6			
	1949	Meagher	26	82	3.2							264	100.0	10.1			
Tenderfoot Creek	1948	Meagher	—	—	—	35	24.8	10.5	65	46.1	10.3	41	29.1	8.5			
	1949	Meagher	33	211	1.2	23	9.0	12.5	192	75.3	10.4	40	15.7	10.0			
Warm Springs Creek	1948	Fergus	27	54	2.0	108	100.0	9.0									
	1949	Fergus	41	98	1.9	190	99.5	9.3				1	0.5	13.0			
Wolf Creek	1948	Lewis and Clark	42	134	1.9	105	40.2	9.5				122	46.8	8.2	34	13.0	13.6
Wolf Creek	1948	Fergus and Judith Basin	—	—	—	447	61.1	8.3	6	0.8	8.0	279	38.1	7.6			
Yogo Creek	1948	Judith Basin	—	—	—	30	18.1	7.0				136	81.9	7.0			
	1949	Judith Basin	26	88	1.3	10	8.7	8.0	11	9.6	7.0	94	81.7	7.5			
Ackley Lake	1948	Judith Basin	—	—	—	240	96.0	12.7				4	1.6	10.0	6	2.4	13.0
	1949	Judith Basin	139	370	0.3	98	93.3	13.0				1	1.0	10.0	6	5.7	14.2
Harrison Lake	1942	Madison	28	—	—	33	89.2	—	1	2.7	—				3	8.1	—
	1949	Madison	155	658	0.3	191	98.5	15.3							3	1.5	15.3
Kolar Lake	1949	Judith Basin	109	276	0.4	105	97.2	12.0				3	2.8	11.3			
Lake Sutherlin	1948	Meagher	100	550	0.6	185	58.0	14.5				134	42.0	11.5			
	1949	Meagher	152	671	0.7	240	54.8	13.1				198	45.2	12.0			
O'Brien Pond	1949	Judith Basin	22	46	0.8	37	100.0	9.6									

Number and Kind Planted					
1946		1947		1948	
Sp.	No.	Sp.	No.	Sp.	No.
		Rb.	19,100		
		Eb.	20,000	Eb.	20,000
				Rb.	1,280
				Ct.	34,600
Rb.	23,785	Rb.	30,360	Rb.	45,120
Ct.	2,250	Ct.	28,200		
Br.	14,000	Br.	35,850	Br.	34,100
				Br.	21,000
Rb.	1,800	Rb.	3,608	Rb.	20,280
		Eb.	2,190	Eb.	2,500
Ct.	14,000	Ct.	20,000		
Rb.	40,200	Rb.	?	Rb.	17,080
		Rb.	1,260		
		Rb.	7,720		
		Rb.	10,000		
		Rb.	28,200	Rb.	1,800

Musselshell River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Sockeye Salmon No.	Sockeye Salmon %	Sockeye Salmon Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
American Fork Creek	1948	Wheatland and	77	369	1.4							385	75.0	9.2	128	25.0	12.1				Eb.	7,600	Rb.	15,460	Eb.	1,050
	1949	Sweetgrass	96	413	1.5							456	72.2	9.6	176	27.8	13.8									
Big Elk Creek	1948	Wheatland	167	1046	1.2	78	6.2	11.7				887	70.2	8.2	298	23.6	12.3				Br.	16,000			Br.	6,000
	1949	Wheatland	50	225	2.0	21	4.6	10.7				405	88.0	8.7	34	7.4	13.5				Eb.	8,200	Eb.	?		
																					Ct.	2,520	Ct.	2,856		
Careless Creek	1948	Golden Valley	61	311	1.6							497	100.0	7.6							Eb.	6,200	Eb.	4,160	Eb.	4,000
	1949	Wheatland	110	446	1.7							763	100.0	7.7												
Checkerboard Creek	1949	Meagher	30	109	2.9	7	2.2	11.0				312	97.5	8.9	1	0.3	14.0									
Cottonwood Creek	1948	Meagher	27	125	2.5	258	80.6	9.4	33	10.3	10.0	29	9.1	10.0							Rb.	3,110	Ct.	350	Rb.	8,920
	1949	Meagher	11	33	4.5	126	85.7	10.7				21	14.3	9.0												
Fish Creek	1948	Golden Valley	61	220	2.0							434	100.0	8.0							Eb.	2,000	Rb.	15,460		
	1949	Wheatland	84	313	2.2							685	100.0	7.7												
		Sweetgrass																								
Musselshell River Sec. I	1948	Wheatland	411	1716	1.4	405	17.4	11.1				135	5.8	8.5	1787	76.8	13.0				Rb.	7,868	Rb.	51,960	Rb.	11,460
(Headwaters to Careless Cr)	1949	Meagher	541	2285	1.2	712	25.2	12.4	1	0.1	11.0				2111	74.7	14.1				Br.	139,280	Br.	274,120	Br.	72,385
		Golden Valley																								
N. Fork Flatwillow	1948	Fergus	35	105	2.0							215	100.0	8.2							Eb.	1,686				
	1949	Fergus	28	75	1.7							124	100.0	8.7												
N. Fork Musselshell	1948	Meagher	45	142	2.5	89	25.1	10.8				229	64.7	8.3	36	10.2	11.7				Rb.	4,050	Rb.	7,920		
	1949	Meagher	34	146	2.9	3	0.7	12.0				409	97.2	9.2	9	2.1	12.0						Br.	3,000		
S. Fork Flatwillow	1949	Fergus	39	114	1.9				39	17.9	8.3	179	82.1	8.4							Eb.	1,680	Eb.	6,370	Ct.	8,000
Swimming Woman Creek	1948	Golden Valley	89	522	1.4							712	100.0	8.1							Eb.	4,400	Eb.	2,604		
	1949	Golden Valley	91	446	1.6							731	100.0	7.9												
Timber Creek	1948	Wheatland	20	75	2.2							167	100.0	8.1							Eb.	2,400				
	1949	Wheatland	18	74	3.2							236	100.0	7.6												
Willow Creek	1949	Musselshell	15	43	1.6				2	2.9	7.0	67	97.1	8.3												
		Fergus																								
Deadmans Basin Lake	1948	Wheatland	853	4196	0.2	606	71.0	15.4				3	0.4	14.0	244	28.6	16.5				Rb.	20,040	Rb.	9,240	Rb.	4,640
	1949	Wheatland	1681	6299	0.1	574	61.2	16.0				1	0.1	13.0	339	36.1	18.7	24	2.6	15.5			Br.	15,430	Br.	32,060
																							Ss.	52,400	Ss.	52,000
Lake Harris	1942	Meagher	98	—	—	128	64.6	—				70	35.4	—												
	1943	Meagher	71	—	—	65	95.6	—				3	4.4	—												
	1948	Meagher	107	618	0.4	157	57.7	11.6				115	42.3	11.2												
	1949	Meagher	56	284	0.7	112	58.0	12.2				81	42.0	9.6												
Lebo Lake	1942	Wheatland	81	—	—	101	90.2	—				11	9.8	—							Rb.	1,540	Ct.	42,000		
	1948	Wheatland	182	664	0.1	62	93.9	21.6				4	6.1	16.0												
	1949	Wheatland	36	124	0.1	10	90.9	24.4				1	9.1	20.0												
Martinsdale Lake	1948	Meagher	498	2686	0.3	352	50.6	15.7	4	0.6	15.5				340	48.8	16.0				Rb.	12,650	Rb.	12,760	Rb.	11,840
	1949	Wheatland	295	1969	0.2	169	39.3	16.0	3	0.7	17.5	2	0.5	10.0	256	59.5	16.7				Ct.	1,500			Br.	15,000
																					Br.	8,000				

Sun River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Grayling No.	Grayling %	Grayling Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Beaver Creek	1948	Lewis and	12	57	1.9	2	1.8	9.5	10	9.3	7.8	96	88.9	8.7											Eb.	3,200
	1949	Clark	6	38	1.6	6	9.8	8.3				55	90.2	8.4												
Ford Creek	1949	Lewis and Clark	15	45	2.3	78	74.3	10.1				27	25.7	9.0							Ct.	6,872	Ct.	6,872	Rb.	14,000
N. Fork Sun River	1949	Lewis and Clark	100	523	1.0	538	98.2	10.1	4	0.7	8.5	6	1.1	8.8							Rb.	3,500	Rb.	20,410	Rb.	27,000
S. Fork N. Fork Sun River	1949	Lewis and Clark	21	166	1.1	75	41.2	12.1	8	4.4	9.1	99	54.4	8.9											Rb. Ct.	6,800 26,400
Sun River Sec. I (Forks to Sun River Bridge)	1949	Teton Lewis and Clark	17	56	0.8	40	93.1	11.1	1	2.3	13.0	1	2.3	13.0	1	2.3	13.0				Rb.	6,500	Rb.	4,540		
Willow Creek	1948	Lewis and	15	75	1.6				43	35.2	8.8	79	64.8	8.0												
	1949	Clark	26	91	1.7	6	4.0	8.5	50	33.1	8.4	95	62.9	8.2												
Wood Creek	1948	Lewis and	7	20	0.8							17	100.0	8.0							Rb.	2,450				
	1949	Clark	13	61	1.0	1	1.6	10.0	1	1.6	8.0	62	96.8	8.5												
Diversion Lake	1948	Teton and	80	297	1.2	344	94.5	10.4				19	5.2	9.0							Rb.	8,960	Rb.	13,080	Rb.	13,920
	1949	Lewis and Clark	264	929	0.3	220	87.3	10.0				32	12.7	8.8												
Gibson Reservoir	1948	Teton and	27	130	1.2	150	99.3	10.9	1	0.7	14.0															
	1949	Lewis and Clark	23	107	1.3	132	98.6	13.6	1	0.7	14.0	1	0.7	8.0												
Pishkun Reservoir	1941	Teton	95	—	—	177	83.9	—	2	0.9	—	17	Salmon	8.1#				15	7.1	—	Rb.	13,800	Rb.	12,200	Rb.	12,000
	1948	Teton	173	786	0.1	103	89.6	15.5										12	10.4	10.1						
Renshaw Lake	1949	Lewis and Clark	39	77	4.9							450	100.0	8.1							Eb.	8,750				
Tunnel Lake #1	1949	Teton	36	129	0.6	66	86.9	9.3				2	2.6	11.0	8	10.5	13.0					?		?		?
Wood Lake	1949	Lewis and Clark	17	54	1.2	6	9.5	7.5	39	61.9	11.2	18	28.6	10.0												

Yellowstone River Drainage

Name of Lake or Stream	Date	County	Number Fishing	Hours Fished	Catch per Hour	Rainbow Trout No.	Rainbow Trout %	Rainbow Trout Size	Cutthroat Trout No.	Cutthroat Trout %	Cutthroat Trout Size	E. Brook Trout No.	E. Brook Trout %	E. Brook Trout Size	Brown Trout No.	Brown Trout %	Brown Trout Size	Number and Kind Planted 1946 Sp.	1946 No.	1947 Sp.	1947 No.	1948 Sp.	1948 No.
Basin Creek	1949	Sweetgrass	12	52	3.0							147	94.2	8.3	9	5.8	16.4			Ct.	19,640		
Boulder River Sec. II (Cowles Bridge to Boulder Falls)	1948	Sweetgrass	49	159	0.5	32	37.2	8.8	44	51.2	9.5	10	11.6	9.0									
	1949	Park	118	864	1.2	652	65.5	9.7	116	11.7	9.2	217	21.8	8.8	10	1.0	9.3	Rb.	11,467	Rb.	43,000	Rb.	45,400
																		Ct.	64,444			Ct.	50,020
																		Br.	43,344				
Boulder River III (Boulder Falls to mouth)	1948	Sweetgrass	77	236	0.8	73	37.8	10.6	8	4.2	9.0				112	58.0	12.0							
	1949	and Park	27	143	1.3	59	31.1	11.3	1	0.5	9.0	130	68.4	11.7				Rb.	5,539	Rb.	5,000	Rb.	16,950
																		Br.	170,670	Br.	54,200	Br.	47,500
																						Ct.	9,800
Brackett Creek	1949	Gallatin Park	20	39	1.7	3	4.5	9.0				23	34.9	8.0	40	60.6	8.8	Eb.	19,800	Eb.	13,200	Eb.	42,032
																				Br.	73,000	Br.	25,000
Clark Fork of the Yellowstone Sec. I (Headwaters to Wyoming line)	1949	Carbon	43	174	1.6				2	0.7	7.0	273	99.3	6.8	2	28.6	9.0	Br.	27,150	Br.	39,300	Br.	41,320
Clark Fork of the Yellowstone Sec. II (Wyoming line to Bridger)	1949	Carbon	30	102	0.1	5	71.4	9.4															
E. Fork Pryor Creek	1949	Big Horn Yellowstone	10	68	2.2				151	100.0	10.4									Ct.	24,550		
East Rosebud Creek	1948	Carbon	71	325	0.5	73	44.0	7.5	18	10.8	8.4	31	18.7	8.2	44	26.5	8.8	Rb.	42,840	Rb.	24,550	Rb.	29,280
	1949	Carbon	35	123	1.4	133	76.4	8.6	1	0.6	8.0	7	4.0	7.1	33	19.0	8.4						
Little Big Horn Sec. I (Headwaters to Spears Siding)	1949	Big Horn	64	187	0.9	68	42.0	9.6	22	13.6	10.0				72	44.4	9.9	Br.	18,100	Rb.	14,000	Rb.	15,500
Lodge Grass Creek	1948	Big Horn	73	416	1.3	163	30.2	—	245	45.5	9.5	131	24.3	—									
	1949	Big Horn	60	258	0.9	44	18.3	9.7	134	55.6	9.0	63	26.1	8.2				Rb.	1,920	Rb.	3,570	Rb.	19,600
																		Ct.	22,400	Ct.	29,460	Ct.	29,400
Pryor Creek Sec. I	1948	Big Horn	73	164	0.9				66	45.2	8.3	80	54.8	8.4									
(Headwaters to Pryor)	1949	Yellowstone	18	46	0.9	2	4.6	8.0	23	53.5	7.7	18	41.9	8.0				Rb.	24,720	Ct.	19,640	Rb.	36,560
Rock Creek Sec. II	1948	Carbon	182	572	0.7	126	29.8	9.2	12	2.8	7.0	72	17.0	8.2	213	50.4	10.0	Rb.	46,200			Rb.	53,080
(Chrome Camp to Boyd)	1949	Carbon	81	258	0.6	80	47.6	10.0				6	3.6	8.0	82	48.4	10.0	Br.	9,050	Br.	30,375	Br.	26,880
Rottengrass Creek	1949	Big Horn	39	107	1.5	4	2.5	8.0	33	20.9	9.4	121	76.6	8.5				Ct.	22,400	Rb.	7,740	Rb.	38,080
Stillwater Sec. II	1948	Stillwater	48	121	0.2	17	65.4	9.8							9	34.6	11.0						
(Sioux Charlie Lake to Nye)	1949	Stillwater	39	122	0.4							7	14.6	8.0	41	85.4	10.0	Ct.	16,400	Ct.	14,730		
																		Rb.	5,000	Rb.	12,000	Rb.	67,000
Stillwater Sec. III	1948	Stillwater	246	1130	0.4	242	49.9	10.5	11	2.3	8.8				232	47.8	10.7						
(Nye to Mouth)	1949	Stillwater	104	366	0.1	5	12.8	10.4				3	7.7	10.0	31	79.5	12.6	Br.	17,120	Br.	30,375	Br.	36,000
																				Rb.	28,000		
Tongue River Sec. I (Wyoming Line to Tongue River Dam)	1949	Big Horn	43	114	0.1	5	71.4	18.2							2	28.6	22.0						
West Rosebud Creek	1949	Stillwater	41	199	0.4	17	22.1	9.7				6	7.8	6.3	54	70.1	9.5					Rb.	90,880
East Rosebud Lake	1948	Carbon	42	169	0.1	15	93.8	9.3							1	6.2	11.0	Rb.	26,640	Rb.	9,910	Rb.	41,608
Emerald Lake	1948	Stillwater	50	166	0.1	13	68.4	8.3							6	31.6	11.3						
	1949	Stillwater	38	139	0.06	1	12.5	12.0							7	87.5	13.7	Rb.	75,800	Rb.	29,460		
Mystic Lake	1949	Stillwater	25	98	0.3	83	100.0	10.1										Rb.	57,880	Rb.	32,424	Rb.	17,040
Willow Creek Reservoir	1948	Big Horn	491	2345	0.1	190	96.5	19.8	6	3.0	19.5				1	0.5	19.0	Rb.	840				
	1949	Big Horn	300	1243	0.1	87	73.7	20.3	5	4.3	20.4				26	22.0	22.1						