

A FIVE-YEAR FISH DISTRIBUTION AND MANAGEMENT PLAN
FOR THE
EMIGRANT HATCHERY DISTRICT
MONTANA

By

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UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION ONE

Approved by
Elmer G. Phillips
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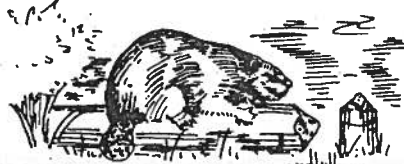


Table 3 - Management data on streams recommended for planting in the Emigrant Hatchery District

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing ^{2/}	Species fish present	List barriers in stream or rearing pond possibilities
Smith River Drainage (above Tenderfoot Creek)	43	30	16		medium	heavy	Ct, Rb, Eb, Cr, Wf, S	
Smith River								
Spring Creek	5	3			good	light	Rb	Beaver dams
Eagle Creek	6	5	1		"	medium	Ct, Rb	Series of beaver dams
E. Fk. Eagle Creek	5	3			"	light	Ct, Rb	Beaver dams
Sheep Creek	28	20	20		"	v. heavy	Ct, Rb, Eb	Many beaver dams
Pole Creek	3	3			"	none	Rb, Ct	Beaver dams
Cabin Creek	4	3			medium	"	Ct, Rb, Eb	
Calf Creek	2	4	3		"	"	Ct, Rb, Eb	Beaver dams plentiful
Indian Creek	2	3			good	"	Ct, Rb, Eb	
Moose Creek	10	10	1		"	heavy	Ct, Rb	Many beaver dams
Kinney Creek	4	3			"	light	Ct, Rb	Some water used for irrigation
Jumping Creek	5	4			"	"	Ct, Rb	
Deadman Creek	4	4			"	medium	Ct, Rb	
Lamb Creek	4	3			"	light	Ct, Rb	
Little Sheep Creek	2	3			"	heavy	Ct, Rb	
Black or Butte Creek	10	10	1		"	medium	Ct (above falls), Rb	8' falls 1 mi. from mouth. Several beaver dams
Deer Creek	9	5	3		"	light	Ct, Rb, Eb	
Spring Creek	10	5			"	"	Ct, Rb, Eb	
Newland Creek	15	12	4		"	v. heavy	Ct, Rb	Many beaver dams
N. Fk. Smith River	26	20	8		"	heavy	Ct, Rb, Eb, S	"
Lake Creek	6	3	1		"	"	Wf	"
Studhorse Creek	5	4			"	"	Ct, Rb	
Guise Creek	5	3	1		"	medium	Ct, Rb	Some water used for irrigation

1/ Temperatures during July and August to be entered as records become available.

2/ Light fishing, 0-300 man-days use; medium fishing, 300-1000 man-days use; heavy fishing, 1000-3000 man-days use; very heavy fishing, over 3000 man-days use.

Table 3 - Management data on streams recommended for planting in the Emigrant Hatchery District.

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit ^{1/}	Food condition	Amount of fishing ^{2/}	Species fish present,	List barriers in stream or rearing pond possibilities
Smith River Drainage (cont.)								
Sawmill Creek	3	3			medium	light	Ct, Rb	
N.Fk. Eight Mile Creek	8	3			good	none	Ct, Rb	
S.Fk. Eight Mile Creek	4	3			"	"	Ct, Rb	Irrigation weir near mouth, closed to fishing
Four Mile Creek	12	5	2		"	heavy	Ct, Rb, Eb	Closed to fishing
Willow Creek	4	5	3		"	medium	Ct, Rb, Eb	Beaver dams lower end
								Dam & reservoir 4 mi. from mouth, White Sulphur Springs water supply
S.Fk. Smith River	25	15	4		"	heavy	Ct, Rb, Eb, Wf, S	
Spring or Catlin Creek	3	4			"	light	Eb	
Big Birch Creek	12	8	1		"	heavy	Ct, Rb	Several beaver dams
Little Birch Creek	7	5			"	"	Ct, Rb	Few beaver dams
Gypsy Creek	3	4			"	medium	Ct	Beaver dams
Thompson Gulch	11	5			medium	light	Ct, Rb	
Camas Creek	17	10	8		good	heavy	Ct, Rb	
Mule Creek	5	3			fair	medium	Ct, Rb	
Elk Creek	5	4	2		good	heavy	Ct, Rb	
Benton Gulch	11	5	5		"	"	Ct, Rb	
Beaver Creek	16	5	2		"	medium	Ct, Rb	
Rock Creek	13	12	4		"	v. heavy	Ct, Rb	
S.Fk. Rock Creek	5	3	2		"	medium	Ct, Rb	
N.Fk. Rock Creek	4	3	1		"	"	Ct, Rb	
Freeman Creek k k k	11	4			"	heavy	Ct, Rb	Sinks 3 mi. from mouth

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^{2/} Light fishing, 0-300 man-days use; medium fishing, 300-1000 man-days use; heavy fishing, 1000-3000 man-days use; very heavy fishing, over 3000 man-days use.

Table 3 - Management data on streams recommended for planting in the Emigrant Hatchery District

Sheet 3 of 7

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit ^{1/}	Food condition	Amount of fishing ^{2/}	Species fish present	List barriers in stream or rearing pond possibilities
<u>Sixteen Mile Creek (above Ringling)</u>								
Sixteen Mile Creek	15	12	3		Good	heavy	Eb, Rb, Ct, Gr, S.	Dam and irrigation reservoir 5 mi. from head
<u>Shields River Drainage</u>								
Shields River	50	50	25	60	"	"	Ct, Rb, LL, Eb, Wf, S	Irrigation dams
Bangtail Creek	10	5		54	"	none	?	
Canyon Creek	9	5			"	small	?	
Brackett Creek	8	15	3		"	heavy	Ct, Rb, LL, Eb	
Flathead Creek	15	15	2		"	"	Ct, Rb, LL, Eb	
Cache Creek	6							
Dry Creek	6							
Muddy Creek	8							
Smith Creek	6	15	4		"	"	Ct, Rb	
Meadow Creek	3	8			"	none	?	
Lodgepole Creek	2	6			"	"	Ct, Rb	
Crandall Creek	2	6			"	"	Ct, Rb	
Dugout Creek	2	6			"	"	Ct, Rb	
Turkey Creek	2	5			"	"	Ct, Rb	
Scotfield Creek	1	5			"	"	Ct, Rb	
Clear Creek	1	5			"	"	Ct, Rb	
Buck Creek	3	6			"	"	Ct, Rb	
Bennett Creek	3	6			"	"	Ct, Rb	
Deep Creek	3	8			"	"	Ct, Rb	
Sunlight Creek	2	6			"	"	Ct, Rb	

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Table 3 - Management data on streams recommended for planting in the Emigrant Hatchery District.

Sheet 4 of 7

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit 1/	Food condition	Amount of fishing 2/	Species fish present	List barriers in stream or rearing pond possibilities
Shields River Drainage (cont.)								
Mill Creek	3	6			good	none	none	
S.Fk. Shields River	5	10			"	"	Ct, Rb	
Porcupine Creek	8	6	3		v. good	medium	Ct, Rb, Eb, Ll	
N.Fk. Elk Creek	10	6			good			
S.Fk. Elk Creek	8	5			"	heavy	Ct, Rb, Ll, Eb	
Daisy Dean Creek	12	8			"	small	Ct, Eb	
Horse Creek	5	6			"	"	Ct, Eb	
Mid.Fk. Horse Creek	5	6			"	none	Eb, Ll, Rb	Closed to fishing
Bear Creek	6	5			"	heavy	Ct, Rb	Sinks for 1 mi., 12 mi.
Cottonwood Cr.	15	15	6		"			above mouth
Trespas Creek	3	5			"	none	Ct	Fast, rocky stream
Little Cottonwood Creek	3	6			"	"	Ct	" "
Rock Creek	18	15	5		"	heavy	Ct, Eb, Rb	" " , goes dry for 2 mi. about 4 mi. below lake
Sheep Creek	4	5			"	none	Ct?	Beaver dam
Little Rock Creek	5	4		54	"	"	Ct, Rb	
Chicken Creek	5	5		55	"	"	Ll, Ct, Rb	
Tobin Creek	5	5			"	"	Ll, Ct, Rb	
Falls Creek	9	6			"	"	Ll, Rb, Eb	
Yellowstone River Drainage								
Yellowstone River (from mouth Lamar River to mouth Shields River)	85	125	35		"	heavy	Ct, Rb, Eb, Ll, Wf, S	

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Yellowstone River Drainage (cont.)								
Suce Creek	7	10			good	none	Ct, Rb	Sinks for 2 mi. from mouth
N.Fk. Deep Creek	6	10			"	"	Ct, Rb	Main stream sinks before reaching river
S.Fk. Deep Creek	5	8			"	medium	Ct, Rb	Sinks 1/2 mi. from river
Pine Creek	7	15			"	heavy	Ct, Rb	in summer
Mill Creek	23	14	7		v. good		Ct, Rb	Goes dry in lower end in summer
E.Fk. Mill Creek	8	12	2		"	medium	Ct, Rb	
Anderson Creek	4	8			good	none	Ct, Rb	
Lambert Creek	2	8			"	"	None	20' falls 1 mi. from mouth
Colley Creek	4	6			"	"	Ct, Rb	Fast, rocky stream
Passage Creek	6	12	1		"	"	Ct, Rb (below falls)	40' falls 3 mi. from mouth
Wallace Creek	4	6			"	"	None	Falls in Passage Cr. below mouth of stream
W.Fk. Mill Creek	8	12	9		v. good	medium	Ct, Rb	
Monitor Creek	3	6			good	none	Ct, Rb	
Arastra Creek	3	8			"	"	Ct, Rb	
Sixmile Creek	14	12	4		"	medium	Ct, Rb	Dry in lower end in summer
N.Fk. Sixmile Creek	9	12			"	small	Ct, Rb	
Cedar Creek	7	14	2		fair	"	Ct	Most of water taken for irrigation
N.Fk. Cedar Creek	3	8			"	none		
Trail Creek	6	6	1		good	small	Ct	Very steep, few pools
N.Fk. Bear Creek	6	12	1		"	heavy	Ct, Gr	Pollution below Jardine

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Yellowstone River Drainage (cont.)								
E.Fk. Bear Creek	10	16			good	heavy	Ct, Rb Planted, 1941-Rb	
Crevice Creek	7	14	1		"	light	Ct	
W.Fk. Crevice Creek	2	4	1		"	none	None	
Hellroaring Creek	15	40	7		"	light	Ct, Rb	
Specimen Creek	3	6			"	none	Ct, planted 1941	
Horse Creek	7	30	1		"	light	Ct, Rb	
Grizzly Creek	5	15	1		"	"	Ct, Rb	
Lamar River	14	60	2		fair	heavy	Ct, Rb, LL	
							Eb, Wf	
Slough Creek	26	30	6		good	light	Ct, Rb, LL, Eb	
Buffalo Creek	18	20	5		"	"	Ct, Rb	
Tucker Creek	5	10			"	none	None	
Bull Creek	7	15			"	"	Ct, Rb	
Soda Butte Creek	20	30	7		fair	heavy	Ct, Rb, LL, Eb	No planting above Cooke
Pebble Creek	14	10			good	medium	Ct	10' falls $\frac{1}{2}$ mi. from mouth
	(To be planted with eyed eggs from Lake Hatchery)							
Elk Creek	4	6	1		good	heavy	Eb	
Lost Creek	4	6			"	"	Eb	
Blacktail Deer Creek	10	8			"	"	Eb	
Gardiner River	24	35	6		"	v. heavy	Eb, Rb above falls)	Osprey falls, 150' falls 8 mi. from mouth. Upper
							Ct, Rb, LL, Eb	12 mi. closed to fishing.
							Wf, S(below falls)	Mammoth water supply

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Yellowstone River Drainage (cont.)								
Lava Creek	11	12	1		good	heavy	Eb (above falls) Rb (below falls)	Undine Falls, 60', 3 mi from mouth
Lupine Creek	7	4			"	none	None	Wraith Falls 50' high at mouth
Obsidian Creek	7	12	1		"	heavy	Eb, Rb	Upper 3 mi. unusable because of hot water
Mol Heron Creek	10	20	1		"	"	Ct, Rb	Cloudburst killed fish in 1941
Cinnabar Creek	5	15	3		"	medium	Ct	
Tom Miner Creek	12	20	10		"	heavy	Ct, Rb	
Sheep Creek	4	12	1		"	light	Ct	
Horse Creek	6	12	1		"	"	Ct	
Rock Creek	12	12	3		v. good	none	None	15' falls 1 mi. from mouth
Steele Creek	2	8			good	"	"	
Big Creek	16	18	8		v. good	medium	Ct, Rb	
Mist Creek	4	6			good	none	Ct, Rb	
Bark Cabin Creek	5	10			"	"	Ct, Rb	
Cottonwood Creek	6	8			"	"	Ct, Rb	
Cliff Creek	6	8			"	"	Ct, Rb	
Lewis Creek	6	8			"	"	Ct, Rb	
Hyalite Creek	6	10			"	"	Ct, Rb	
Strickland or Fridley Creek	8	10	8		"	small	Ct, Rb	Nearly dry in lower end in summer
Eight Mile Creek	8	16	5		v. good	"	Ct, Rb	
Trail Creek	27	7	3		poor	none	?	

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Table 4 - Management data on lakes recommended for planting in the Emigrant Hatchery District.

Sheet 1 of 3

Name of lake	Acreage	Temperature degrees F.1/	Food condi- tion	Species fish present	Percent of area under 30 feet in depth	Percent of area over 100 feet in depth	Amount of vegetation present	Principal type of shore line; mud, gravel, rock, etc.	Drains into
<u>Smith River Drainage</u>									
Hansen Reservoir	1	58	good	Ct, Rb		100	large	mud	Smith River
Lake Sutherland	700		"	Rb, Ct, S, Eb, SS	50		medium	mud, gravel	N. Fk. Smith River
Lake Edith	5		med.	Rb, Ct	50	10	small	gravel, rock, silt	Big Birch Creek
Lake Baldy	5		good	Ct, Rb	50	10	"	rock, gravel	Camas Creek
Camas Lakes	7		"	Ct	50		"	"	
<u>Shields River Drainage</u>									
Lone Lake	5		fair	None	25		"	rock	Cottonwood Creek
Cottonwood Lake	5		good	Ct	30		"	mud, rock	"
Rock Lake	52		"	Ct	25		"	rock	Rock Creek
			(8' irrigation dam at outlet)						
Smaller Lake <i>yellowstone</i>	32		good	Ct	25		"	"	"
Alpine Lake <i>Drainage</i>	4		fair	Ct	25		"	"	"
Pine Creek Lake	30		good	Rb, Ct	100		medium	rock, gravel	Pine Creek
Elbow Lake	12		"	Ct	100		"	"	Elbow Creek
Crystal Lake	6		fair	Ct	100		poor	rock	E. Fk. Mill Creek
Colley Lake	5		good	None	100		medium	gravel	Colley Creek
Thompson Lake	8		"	Ct	100		good	gravel, mud	Thompson Creek
Lonesome Pond	8		"	Ct	100		fair	"	Monitor Creek
Rock Creek Lake	15		"	None	100		good	"	Rock Creek
Fridley Lakes	6		fair	"	100		fair	gravel	Fridley & Strickland Cr.
Lake Elsie	5		good	Ct	100		good	gravel, mud	Big Creek

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Name of lake	Acreage	Temperature degrees F./	Food condi- tion	Species fish present	Percent of area under 30 feet in depth	Percent of area over 100 feet in depth	Amount of vegetation present	Principal type of shore line; mud, gravel, rock, etc.	Drains into
<u>Yellowstone River Drainage</u>									
Aldridge Lake	40		good	Ct	40		large	mud, gravel (State spawning station)	Mol Heron Creek
Sportsman Lake	20		"	Ct	75		"	mud, gravel	Mol Heron Creek
N. Bear Cr. Lakes (4)	10		"	Rb, Ct, Gr	100		small	"	N. Bear Creek
Knox Lake	4		"	Eb, Ct	100		"	rock, gravel	Main Bear Creek
Fish Lake	2		"	Ct	100		"	gravel, mud	" "
Carpenter Lake	20		"	Ct	50		medium	mud, gravel	Grizzly Creek
Hidden Lake	10		v. good	Rb	50		large	"	Buffalo Creek
McBride Lake	16		good	Ct	50		medium	mud, rock, gravel	Slough Creek
Lake Abundance	100		"	Ct	25	20	"	"	Lake Abundance Cr.
Sepulcher Lakes	23		"	Rb, Gr	100		"	mud	Yellowstone River
Mammoth Beaver ponds	15		"	Rb	100		"	mud, gravel	Gardiner River
<u>Clark Fork of the Yellowstone River Drainage</u>									
Upper Mud Lake	5		fair	Eb	75		small	rock, gravel	Lady of the Lake Cr.
Corner Lake	10		poor	Ct	50	10	none	"	" "
Lady of the Lake	50		fair	Ct, Eb	75		small	rock, gravel, mud	" "
Round Lake	30		good	Eb, Ct	30	20	"	gravel, rock	" "
Ovis Lake	15		fair	Ct	50		none	rock	" "
Long Lake	20		"	Eb, Ct	80		small	rock, gravel	" "
Three Lakes	6		good	Eb	100		medium	rock, gravel, mud	" "
Huckleberry Lake	30		poor	Eb	25	25	none	rock	Stillwater River
Wall Lake	30		fair	None	25	25	small	"	"
Companion Lake	8		"	Eb	80		"	rock, gravel	Lady of the Lake Cr.

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Clark Fork of the Yellowstone River Drainage (cont.)									
Broadwater & Curl Lakes	180		fair	Ct	20	50	small	rock, gravel	Broadwater, Clark Fork River
Star Lake	8		good	Eb	50		medium	"	"
Green Lake	6		fair	None	70		small	"	Broadwater River
Kersey Lake	125		good	Eb	20	25	medium	rock, gravel, mud	"
Crescent Lake	8		v. good	Eb	75		large	mud	Clark Fork River
3 unnamed lakes west of Rock Island Lake	20		"	None	60		"	mud, gravel	"
Rock Island Lake	120		good	Eb, Rb	20	60	medium	rock, mud, gravel	"

1/ Temperatures during July and August to be entered as records become available.

Table 6. Lakes in the Emigrant Hatchery District
in which no planting is recommended.

Sheet 1 of 2

Name of lake	Acreage	Species fish present	Reason for not planting				Other
			Too warm	Undesirable fish present	Too shallow	Inadequate food	
<u>Yellowstone River Drainage</u>							
Crater Lake	1	None			x	x	Inaccessible Has been going dry in recent years Inaccessible Adequately stocked "
Mud Lake	1	"			x	x	
Five Lakes	6	"			x		
Dailey Lake	300	Ct,Rb,SS	x				
Five Lakes	4	None					Inaccessible
Fawn Lake	3	Eb					
Charley White Lake	10	Ct			?		
3 unnamed lakes head W.							
Fk. Horse Cr.	4	None			x		Inaccessible
Wounded Man lakes (4)	10	Ct					
<u>Clark Fork of the Yellowstone River Drainage</u>							
Mud Lake	2	None			x		Inaccessible
Jeff Lake	1	"			x		
Mutt Lake	5	"			x		
Hilltop Lake	6	"			x		
Snow Lake	6	"					Inaccessible
Unnamed lake below Star Lake	3	Ct,Eb			x		
Zimmer Lake	12	None					
2 unnamed lakes head of Skytop Cr.	40	"					
Cliff Lake	10	"					Inaccessible
Moccasin Lake	10	"					
Sodalite Lake	40	"					
Sedge Lake	10	?				x	

Table 6. Lakes in the Emigrant Hatchery District
in which no planting is recommended.

Sheet 2 of 2

Name of lake	Acreage	Species fish present	Reason for not planting					Other
			Too warm	Undesirable fish present	Too shallow	Inadequate food	Needs investigation	
Clark Fork of the Yellowstone River Drainage (cont.)								
Lower Crazy Lakes (3)	150	Rb						Adequately stocked at present
Aquarius Lake	20	None						Same as above
Russell Lake	20	"						Inaccessible
10 unnamed lakes above Russell Lake	150	"						"
Farley Lake	100	"						"
5 unnamed lakes above Farley Lake	80	"						"

Table 7. Species of fishes and their distribution in the main rivers and lakes of the Emigrant Hatchery District.

River or lake	Species of fish									
	Cutthroat	Rainbow	Eastern brook	Loch Leven	Grayling	Whitefish	Silver salmon	Suckers		
<u>Rivers</u>										
Gardiner River (below falls)	x	x	x	x		x		x		
Gardiner River (above falls)		x	x							
Lamar River	x	x	x	x		x				
Smith River (above Tenderfoot Cr.)	x	x	x		x	x		x		
Sixteen Mile Creek	x	x	x		x			x		
Shields River	x	x	x	x		x		x		
Yellowstone River (above mouth Shields River)	x	x	x	x	x	x		x		
<u>Lakes</u>										
Aldridge Lake	x									
Broadwater and Curl Lakes	x									
Kersey Lake	x		x							
Long Lake	x		x							
Lady of Lake	x		x							
Lake Abundance	x									
Lake Sutherlin	x	x	x				x	x		
Pine Creek Lake	x	x								
Rock Lake	x									
Rock Island Lake		x	x							
Round Lake	x		x							
Sportsman Lake	x									
Smeller Lake	x									
Native species	x				°	x		x		
Introduced species		x	x	x			x			

° Native to Smith River Drainage - introduced in other drainages.