Ref 1D 86225

MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS

FISHERIES DIVISION JOB PROGRESS REPORT

STATE: Montana PROJECT TITLE: Statewide Fisheries

<u>Investigations</u>

PROJECT NO.: F-46-R-1 STUDY TITLE: Survey and Inventory of

Warmwater Lakes

JOB NO.: IV-d JOB TITLE: Southeast Montana Warmwater

Lakes Investigations

PROJECT PERIOD: July 1, 1987 through June 30, 1988

REPORT PERIOD: April 1, 1987 through March 30, 1988

ABSTRACT

A total of 92 reservoirs were sampled for physical and/or biological information in 1987. Seventy-eight of these were reservoirs under department management, surveyed to determine the status of fish populations and to evaluate past management practices. The remaining 14 reservoirs were ponds surveyed for the first time to determine suitability for producing sport fishing. Nine of the fourteen were planted with fish. Of 31 reservoirs planted with fingerling largemouth bass in July, 1986, 29 had bass populations in summer 1987.

OBJECTIVES AND DEGREE OF ATTAINMENT

- 1. To maintain sport fishing for suitable species in the 84 small reservoirs presently under managment, and in new receivers added. This objective was met, as evidenced by fish populations sampled. Results are shown in Table 2 of the RESULTS AND DISCUSSION section.
- 2. To add 40 new reservoirs to the number of ponds supplying public fishing. A total of 30 new ponds was added to the Region 7 public pond list; six old ponds were lost from the public pond system during the report period for a net gain of 24 ponds.
- 3. To keep the angling public informed of pond fishing opportunities. An updated booklet for public distribution was completed and printed in February 1988. The booklet lists and describes fishing opportunities in the 108 ponds presently under management. Each pond is located on a map. Two thousand five hundred copies were printed and most have been distributed to the public.

PROCEDURES

Pond depths were determined by sounding with a calibrated rope and sash weight. Fish populations were sampled with 125-feet long sinking experimental gill nets, 1/4-inch mesh bag seines 100-feet long and boat mounted electrofishing gear operated at night. Gill nets were always fished overnight.

RESULTS AND DISCUSSION

Survey of New Ponds

Requests were received to plant 14 ponds. Of these 11 were considered suitable for plantings (Table 1), but only 9 were actually planted. Two landowners changed their minds and decided they did not want to allow public fishing. Five ponds were planted with largemouth bass and four with rainbow trout.

Survey of Previously Planted Reservoirs

Carter County

A total of 13 reservoirs were sampled in Carter County. Results are shown in Table 2. Two ponds were planted with largemouth bass fingerlings in July 1986 (Rath and Richardson ponds) both plants survived the first winter with good to fair growth. The LaBree pond was planted with largemouth bass fry in early June 1987. It was seined in mid July to check fingerling survival. Good numbers of two-inch bass were found. Green sunfish were sampled for the first time at Gardner Reservoir. Although the 1987 rainbow trout plant survived well, past experience indicates future trout plants will not survive when green sunfish become abundant. Sampling at other reservoirs gave only expected results.

Custer County

Nine reservoirs were sampled in Custer County (Table 2). All three reservoirs (Taylor, Jim Beardsley #1 and 2) planted with largemouth bass fingerlings in 1986 had overwinter survival. Northern pike were found in the Haughian bass pond. These fish could only be present by illegal introduction. No action will be taken at this pond for the present time. Northern pike may not spawn here. Some trout at the Pat Beardsley pond had grown to 3 1/2 pounds. Crappies and channel catfish are not reaching a desirable size at Spotted Eagle pond. A plant of largemouth bass was made at Spotted Eagle in June 1988.

Dawson County

Fingerling largemouth bass plants at Shaw and Wielgosh ponds were successful, with both showing overwinter survival. Lindsay Reservoir had once been a good yellow perch pond, but sampling in 1985 found only insignificant perch numbers. One thousand four hundred fifty perch were transplanted in April 1986 and a large

number of yellow perch YOY were sampled in 1987 (Table 2). Yellowstone River rough fish species have already reached Hollecker pond following refilling in 1986. This pond is filled with Yellowstone River ditch water. Largemouth bass were not sampled in two seine hauls at Hollecker pond, but this species is known to be present in angler catches. Big Drop and Camp Reservoirs were only three to four feet deep. These reservoirs, even if filled, would be marginal in depth and will not be replanted.

Fallon County

Largemouth bass plants at Baker Lake, Rush Hall and Pinnow #3 reservoirs were successful. No bass were sampled at Sieler Reservoir in 1987 following a fingerling plant in 1986. Bass were observed at Lorbiecke Reservoir, but the pond was nearly dry.

Baker lake had a large winterkill early in 1986. Northern pike were planted later in 1986 and largemouth bass in 1987. The city of Baker applied the herbicide "Sonar" in May 1987. The herbicide was extremely effective; vascular plants were eliminated for the entire year. Northen pike caught late in 1987 had developed a decaying plant taste. This was thought to be caused by decaying plant material. Summer 1987 sampling showed good survival, but poor growth of northern pike. Largemouth bass numbers were low, probably because of the lack of vascular plants for cover. Few black bullheads and yellow perch were present in summer 1987, because of 1986 winterkill, but average size for both species was aready much improved over previous years. The city of Baker has agreed to not reapply herbicide in 1988 until significant vascular plant growth has occurred and then at a much lower concentration.

Decreasing the rainbow trout plant at Meccage Reservoir from 4000 to 1000 fingerlings per year has resulted in some trout up to one pound. These were not present in 1985 when the pond was last sampled.

Good numbers of walleye and northern pike are present at South Sandstone Reservoir, but no evidence was found for survival of wallye fry planted in 1987. Yellow perch and black bullheads continue to be mostly too small to interest anglers.

<u>Garfield County</u>

Largemouth bass fingerling were planted at nine Garfield County reservoirs in July 1986. These plants were all successful, with many of the bass reaching a half pound by August 1987 (Table 2). The Dale Krieder #1 Reservoir was gill-netted three weeks after treatment with rotenone in early September, 1987. No fish were found. This reservoir previously had carp, white suckers and walleye, but was supporting very little fishing. It has since been replanted with largemouth and smallmouth bass. Rainbow trout up to 4 1/2 pounds were sampled at Olson Reservoir.

rowaer River County

The two Williams reservoirs were sampled in August 1987 to check survival of largemouth bass fry planted in June 1987 (Table 2). Survival was indicated at both reservoirs, but growth was much better at #2 reservoir. Fingerling bass planted in July 1986 at Yonkee reservoir survived but grew poorly. Mud Turtle reservoir has not shown any overwinter survival of planted rainbow trout. Because it is on U.S. Forest Service land, future plants will be catchables.

Prairie County

Overwintering of rainbow trout was found at Harms pond. South Fork Reservoir has produced a northern population from a fry plant, but the reservoir is very low. Homestead Reservoir sampling found largemouth bass up to nearly two pounds.

Largemouth bass survival was found at both Cottontail and Marshall reservoirs. Some crappie at Silvertip Reservoir weighed almost one pound.

Richland County

Only two ponds were sampled in Richland County. Fingerling largemouth bass planted at LaBonte Reservoir survived over winter and grew well. Largemouth bass are prospering at Ericksen Reservoir but the landowner has closed access.

Rosebud County

Five reservoirs were planted in July 1986 with fingerling largemouth bass (Lee #1, #2, Ringstveidt, Newman and Schlesinger #2). All five plants survived the first winter and some bass reached a half pound weight by July 1987 (Table 2). Both Hook Ranch ponds had good rainbow trout populations, with the average rainbow weighing over a pound at Hook Ranch #3 Reservoir. Large trout (up to 2 1/2 pounds) were also present at Zemple Reservoir. Good numbers of yellow perch YOY resulted at Schlesinger Reservoir #1 from the 1986 perch plant.

Fish populations are still doing well at Castle Rock Reservoir. More and larger largemouth bass were sampled than in any other previous year. The largest weighed almost 1 1/2 pounds. Northern pike were sampled up to four pounds and a few bluegill weighed up to 1/2 pound. Walleye fry plants in recent years appear to survive poorly. Very few seem to be present in the reservoir.

<u>Wibaux County</u>

Wibaux pond and Banister reservoir were planted with fingerling largemouth bass in July 1986. Sampling showed good overwinter survival at both reservoirs (Table 2), although growth was much better at Banister Reservoir. Meeke Reservoir will not be

replanted. Rainbow trout have not over-wintered both times the pond has been sampled in recent years. Houck Reservoir was planted with rainbow trout for the first time in 1987; growth was good. Miske pond had rainbow trout from 1986 and 1987 plants. Most rainbows from the 1986 plant weighed about a pound.

Prepared by: Phillip A. Stewart

Date: June 28, 1988

Waters Referred to:

Baker Lake 21-1778
Castle Rock Lake 21-2527
South Sandstone Reservoir 21-8775

Keywords

small reservoirsyellow perchlargemouth bassblue gillsmallmouth bassblack bullheadrainbow troutnorthern pike

Table 1. Results of New Pond Surveys in 1987,

Pond	County	T CO	Locatic T R	S	Max. Depth (Ft.)	Fish Species Present	Recommendations
Enos, Pete	Carter	AN	188 188	W.	9	Black bullhead	Don't plant
Grebe, Ed #2	Rosebud	 2	32E	S A	<u>ы</u> Ю	e L	Plant rainbow trout
Grebe, Ed #3	Rosebud	12N	N		12	None	Plant LMB
Johnson, Rick	Treasure	JN	35 E	17	ш (Л	Green Sunfish	Plant largemouth bass
Kvaalen, Oscar	Richland	22N	50 で	33	ω	Flathead chub	Plant largemouth
						Longnose sucker Black bullhead	bass
Moore, John	rn	N6	46E	ഗ	7	○	Don't plant
Mysse, Sievert	Rosebud	H	a)	 	W	None	
Olson, Norman #2	Garfield	O	9	85 QJ	7 9	Fathead minnows	Don't plant
(O	S ect	ン ス	د سر اترا	ω	12	Rainbow trout	
Saylor, Irven	Garfield	19N	34E	ω 22	H	Rainbow trout	Plant rainbow
							trout
Severson, Geo. #1	Garfield	 4 Zi	34 E	أسا	ىــ س	None	Plant Largemouth bass
Severson, Geo. #2	Garfield	l 2	3 4 E	N	اط اک	None	Plant Largemouth
Severson, Geo. #3 Severson, Geo. #4	Garfield Garfield	L L A Z Z Z	35 4 E	H W	と い	None None	Plant Rainbow trout

14C10 2. Results of fish sampling for Southeastern Montana Ponds, Summer 1987

Pond Name	Type of Sample	Species	Number	Mean (mm)	(Qm) (Qm) Hean Kean	Range (mm)	Weight Range (gm)
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Richardson, Geo. Res	(A)	C	24	W	(J.)	23-16	20-6
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Gardner, Doug Res.	2 gill nets	RBT	3	O	W W	62-49	40-13
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Bucholtz Res.	1 seine haul	BCR	5		70	2	50-10
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Abbreviations: LMB = largemouth bass; YOY = young of year; BBH = black bullhead; YP = Yellow perch; NP = northern pike; RBT = rainbow trout; GSF = green sunfish; FHC = flathead chub; SMB = smallmouth bass; BCR = black crappie.

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Table 2 Continued.

F	Beardsley, Jim #1		Beardsley, Pat	O T			Ft. Keogh Pond		Taylor, Cody Res.)				Haughlan, Dan #3 Res	on						ייין דמוו		MacNao Kes.	
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Abbreviations: FHM = fathead minnow; WS = White sucker

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Table 2 Continued.

Shaw, James Lindsay Res		Spotted Eagle Pond
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Abbreviations: WCR = White crappie; WE = Walleye; PS = pumpkinseed; catfish; BG = bluegill; RHSu = Shorthead redhorse Ccat " Channel

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Table 2 Continued

a Abbreviations:				South Sandstone Res			Maier Reservoir	•					Maier Reservoir						Hollecker Pond	Res		Burman, Marvin Res						Lindsay Res.	
RCS = river car			4 seine hauls	<i>w</i>			2 gill nets						2 seine hauls						2 seine hauls	eine	1 gill net	•						2 gill nets	
carpsucker; BCR :	Q †	くび			KA KA	BCR	IMB	LMB(YOY)	LMB	CR	CR (YOY)	¥.	BCR	FALLON	ZHSu	ВВН	WC R	BCR	RCS	LMB	ZBT		WSu	Z.	ВВН	CARP	NP(YOY)	NP	
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Abbreviations:

RCS = river carpsucker; BCR = black crappie; CR = unidentified crappie

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rable 2 Continued

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Ω Abbreviations: BSB = brook stickleback

155-339

40-460

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208-272

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Table 2 Continued

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Table 2 Continued

LaBonte, Dan Res. Ericksen Res.	Harms Res. South Fork Res. Homestead Res. Cottontail Res. Silvertip Res.	Williams #2 Yonkee Res. Mud Turtle Res.
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Table 2 Continued

ROSEBUD COUNTY

							Castle Rock Res.		Schlesinger, Swede				Schlesinger, Swede		Newman, Albert		Zemple Res.		Ringstveidt Pond			Lee, Al #2 Res.					Ħ	Hook Ranch #3	
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Table 2 Continued

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