

ADDITIONS TO THE LIST OF FISHES OF S. D.

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During the summer of 1926 the author had the privilege of being a member of a party under Mr. W. H. Over, Curator of the Museum of the University of South Dakota, which made a Biological Survey of nine of the lakes in eastern South Dakota. This work was carried out by the State Fish and Game Commission under the direction of Commissioner O. H. Johnson in cooperation with the state Geological and Natural History Survey. The party was in the field from June 20th to August 15th. In addition to a systematic study of the natural conditions of the lakes visited and an examination of the food of the commoner fishes of commercial importance, collections were made at these lakes and nearby streams for the purpose of finding any species of fish which had not been previously reported as occurring in South Dakota.

The basis of classification is that used in the "Natural History Survey of Illinois," Vol. 3, by Forbes and Richardson, 1920. The lakes and streams studied were as follows: **Lake Andes**, Bass Pond Outlet, Andes Creek, Shoteau Creek; **Lake Byron**, above the inlet, the lake proper; **Cottonwood Lake**, Turtle Creek, the Lake proper, Medicine Creek; **Lake Kampeska**; Sioux River east of Lake Poinsett; Sand Lake; Clear Lake; Buffalo Lake; Little Minnesota River east of Sisseton; Pickerel Lake; Oakwood Lake; Creek 7 miles east of Brookings; Lake Tetonkaha.

The following species of fish were found which had not previously been included in the list of fish of the State;

FAMILIES	SPECIES	COMMON NAME
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Cyprinidae—The carp-like fishes

Campostoma anomalum	Stone-roller
Hybognathus nubila	Silvery minnow
Hybognathus nuchalis	Silvery minnow
Pimephales promelas	Blackhead minnow

Abramis crysoleucas	Golden shiner
Cliola vigilax	Bullhead minnow
Notropis umbratilis	Blackfin
Notropis lutrensis	Redfin
Notropis hudsonius	Spot-tailed minnow
Notropis blennius	Straw-colored minnow
Notropis anogenus	None
Notropis cornutus	Common shiner
Notropis cayuga	None
Notropis jejunos	None
Notropis atherinoides	Shiner
Hybopsis storerianus	Storers chub
Ictiobus bubalus	Small-mouth buffalo
Moxostoma breviceps	Short headed red-horse

Siluridae—The catfish

Schilbeodes gyrinus	Tadpole catfish
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Poeciliidae—The Killifishes

Fundulus notatus	Top-minnow
Fundulus diaphanus	Menona top-minnow

Percopsidae—The Trout-perches

Percopsis guttatus	Trout-perch
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Centrarchidae—The Sunfishes

Pomoxis sparoides	Black crappie or calico bass
Lepomis humilis	Orange spotted sunfish
Lepomis cyanellus	Green sunfish

Percidae—The perches

Percina caprodes	Log-perch
Etheostoma iowae	A darter
Etheostoma jessiae	A darter
Aadropterus evermanni	Blackside darter
Boleosoma nigrum	Johnny darter
Boelichthys fusiformis	A darter

-- Species found in the neighborhood of Brookings. Oakwood Lake-Uotropis cornutus, common shiner,

Lake Tetonkaha	Fundulus diaphanus menona
	Cliola vigilax
	bullhead minnow

Creek 7 miles east of Brookings.

Hybopsis storerianus.....	Storers chub
Campostoma anomalum....	Stone-roller
Schilbeodes gyrinus.....	Tadpole-catfish
Hybognathus nubila.....	Silvery minnow
Pimephales promelas.....	Blackhead minnow
Notropis blennioides.....	Straw-colored minnow
Notropis atherinoides.....	A shiner
Boleosoma nigrum.....	Johnny darter

In all 31 species representing 6 families of fishes were found of which published notice had not been previously been given for the State of South Dakota.

Of these the larger share belong to the carp family. Their economic importance is confined to that of food for larger fish and to bait. Two species in this family, however, the small mouth buffalo and the short headed red-horse are edible by man though not of first class quality.

Two new species of top-minnows were found. The top-minnows devour mosquito larvae and pupae and are for this reason of economic importance. The darters are of practically no value, being useless for bait and of little value as food for other fish. The green sunfish and the black crappie, the latter especially, are very good food for man.