

INTERNAL REPORT 34

CHECKLIST OF FISHES OCCURRING IN THE LAKE WASHINGTON DRAINAGE

R.S. Wydoski

University of Washington

INTRODUCTION

The following checklist of fishes occurring in the Lake Washington drainage has been modified from Ajwani (1956:23-25).¹ Scientific and common names are arranged phylogenetically as listed in Bailey (1970).² References pertaining to additions to the list are footnoted with the species name.

Thirty-five species have been reported in the drainage -- 23 species are native while ten other species have been introduced and have become established. Ajwani listed several species of doubtful occurrence. One of these, the chum salmon, has been introduced and may become established through the activities of Dr. Lauren R. Donaldson, College of Fisheries, University of Washington. During the fall of 1970, two pink salmon entered the University of Washington hatchery pond, constituting the first record of this species at the pond. Other species that were listed by Ajwani have been eliminated from the list if they have not been collected during sampling by University of Washington studies. A question mark indicates that the species has not been sampled but might be present.

Two species have been added to the list recently. A longfin smelt population is of particular interest since this is the first record of a land-locked population. The growth rate of these smelt is equal to or greater than that of anadromous populations (Dryfoos, 1965).³ Also of interest is an undescribed cottid that has adapted to a pelagic existence in Lake Washington from the usual benthic habits of the family (Ikusemiju, 1967).⁴ Dr. Carl E. Bond of Oregon State University is now studying the taxonomy of this species.

<u>Scientific Name</u>	<u>Occurrence</u>	<u>Common Name</u>
Petromyzontidae		
<u>Lampetra ayresi</u> (Gunther)		River lamprey
<u>Lampetra richardsoni</u> Vladykov and Follett		Western brook lamprey
<u>Entosphenus tridentata</u> (Gairdner)		Pacific lamprey
Salmonidae		
<u>Oncorhynchus gorbusha</u> (Walbaum)	**	Pink salmon
<u>Oncorhynchus keta</u> (Walbaum)	**	Chum salmon
<u>Oncorhynchus kisutch</u> (Walbaum)		Coho salmon
<u>Oncorhynchus nerka</u> (Walbaum)		Sockeye salmon - (migratory)
<u>Oncorhynchus nerka</u> (Walbaum)		Kokanee (Lacustrine)
<u>Oncorhynchus tshawytscha</u> (Walbaum)		Chinook salmon
<u>Prosopium williamsoni</u> (Girard)		Mountain whitefish
<u>Salmo clarkii clarkii</u> Richardson		Coastal cutthroat trout
<u>Salmo gairdneri</u> Richardson		Steelhead trout - (migratory)
<u>Salmo gairdneri</u> Richardson		Rainbow trout - (resident)
<u>Salvelinus fontinalis</u> (Mitchill)	*?	Brook trout
<u>Salvelinus malma</u> (Walbaum)		Dolly varden
<u>Salvelinus namaycush</u> (Walbaum)	?	Lake trout
Osmeridae		
<u>Spirinchus thaleichthys</u> (Ayres)	3/	Longfin smelt
Cyprinidae		
<u>Cyprinus carpio</u> Linnaeus	*	Carp
<u>Mylocheilus caurinus</u> (Richardson)		Peanouth
<u>Ptychocheilus oregonensis</u> (Richardson)		Northern squawfish
<u>Rhinichthys osculus</u> (Girard)		Speckled dace
<u>Richardsonius balteatus</u> (Richardson)		Redside shiner
<u>Tinca tinca</u> (Linnaeus)	*	Tench
Catostomidae		
<u>Catostomus macrocheilus</u> Girard		Largescale sucker
Ictaluridae		
<u>Ictalurus nebulosus</u> (LeSueur)	*	Brown bullhead

* introduced and established

** doubtful occurrence

? uncertain if the species has become established

<u>Scientific Name</u>	<u>Occurrence</u>	<u>Common Name</u>
Gasterosteidae		
<u>Gasterosteus aculeatus</u> Linnaeus		Threespine stickleback
Centrarchidae		
<u>Lepomis gibbosus</u> (Linnaeus)	*	Pumpkinseed
<u>Micropterus dolomieu</u> Lacepede	*	Smallmouth bass
<u>Micropterus salmoides</u> (Lacepede)	*	Largemouth bass
<u>Pomoxis nigromaculatus</u> (LeSueur)	*	Black crappie
Percidae		
<u>Perca flavescens</u> (Mitchill)	*	Yellow perch
Cottidae		
<u>Cottus</u> sp.	<u>4/</u>	Pelagic cottid
<u>Cottus aleuticus</u> Gilbert		Coastrange sculpin
<u>Cottus asper</u> Richardson		Prickley sculpin
<u>Cottus gulosus</u> (Girard)		Riffle sculpin
<u>Cottus rhotheus</u> (Smith)		Torrent sculpin

REFERENCES

- 1/ Ajwani, S. 1956. A review of Lake Washington watershed, historical, biological, and limnological. M.S. Thesis, University of Washington. 148 p.
- 2/ Bailey, Reeve M. 1970. A list of common and scientific names of fishes. Third edition. Am. Fish. Soc. Spec. Publ. No. 6. 150 p.

(Chairman, Committee on the Names of Fishes)
- 3/ Dryfoos, Robert L. 1965. The life history and ecology of the longfin smelt in Lake Washington. Ph.D. Thesis, University of Washington. 229 p.

(Longfin smelt, Spirinchus thaleichthys (Ayres), first taken in Lake Washington in 1959.)
- 4/ Ikusemiju, Kola. 1967. The life history and ecology of Cottus sp. in Lake Washington. M. S. Thesis, University of Washington. 90 p.

(Describes aspects of the biology of an undescribed sculpin that has adapted to the pelagic environment. This fish was discovered during mid-water trawling by Dryfoos (1965).)