

and in the blunthead and nine-spined stickleback shows slightly greatly affinity to the Great Lakes than Otter Lake. Most previous lists for Ontario² although of some help related too much to the ichthyologist's boundary paradises and reservoirs, namely: Lakes Ontario, Erie, Huron and Superior, to be of particular service in the study of the far inland lakes of the province.

Ameiurus nebulosus (Le Sueur). Catfish.

Common in the weedy edges of Otter lake where pickerel-weed, pipe-wort, watershield and other water plants abound. Also found in outlet of the Peat bog. We found no catfish in Fletcher lake.

Catostomus commersonii (Lacepede). Sucker.

Reported as common throughout the region. I secured it at Otter lake. Meek secured it at Gravenhurst and Trout creek.

Chrosomus erythrogaster Rafinesque. Red-bellied Dace.

The most common minnow of all these lakes. It is especially a minnow of quiet clear water, both lakes and streams. Every lake or pond visited if it had minnow at all harbored mainly red-bellied dace. Meek secured it at Muskoka lake and Trout creek. Also taken by Professor Macoun in Algonquin Park.

Pimephales promelas Rafinesque. Fat-head.

On August 11, 1913, we seined several "fat-heads" in a marshy place of Otter lake. Meek secured it at Trout Creek.

Notropis cayuga Meek. Cayuga Minnow.

In weedy shallows of Otter lake and its peat bog pond we found this species. I believe this the same as Meek's *N. muskoka* taken by him at Gravenhurst and other places.

Notropis cornutus (Mitchill). Shiner.

The shiner or redbin occurs in many of the lakes of the region. Taken by us in Otter, Harvey Jr., and other lakes.

Semotilus atromaculatus (Mitchill). Horned Dace. Creek Chub.

Widely distributed. It was found in Otter, Harvey Jr., Fletcher and other lakes. Meek had it from Gravenhurst and Trout Creek.

Leuciscus neogaeus (Cope). Cope's Minnow.

In weedy shallows of Otter Lake, we secured representatives of this form on July 29 and August 11, 1913, associated with red-bellied dace.

Esox lucius (Linnaeus). Pike.

So far as we could determine there are no native pike (*E. lucius*), pickerel (*E. tridecemlineatus*) and lunge (*E. masquinongy*) in Lake of Bays, Hollow Lake, Fletcher Lake and other lakes of this

region, and no one was found to report introduced fish of these three species. Meek reports the pike and lunge from Muskoka Lake.

Eupomotis gibbosus (Linnaeus). "Pumpkin Seed."

Common from Lake of Bays to Algonquin Park. The boys of camp brought us sunfish from Harvey Jr., Hardwood, Fletcher and other lakes and they were not uncommon in Otter Lake. Rock bass are not in these lakes but held by local fishermen to be in lower lakes although Meek stated there were no rock bass in the lakes of the Highlands of Ontario.

Micropterus dolomieu Lacepede. Small-mouthed Black Bass.

Not reported from Lake of Bays eastward or northward. Meek secured it on Muskoka Lake.

Perca flavescens (Mitchill). Perch.

Taken in several lakes in 1913. Common in Fletcher, Skin and Porridge lakes, but not very large. Held to be put in these lakes by the Dominion government twenty or more years before. The stock is supposed to have come from Orillia. Also taken in Lake of Bays. Meek secured them at Gravenhurst.

Cristivomer namaycush (Walbaum).

Common in many of the lakes of the region. Held by many residents to be native of Hollow, Kimball, Bear and some other lakes. In others like Hardwood they were held to be introduced about June, 1889. About Hollow Lake, Lake of Bays, and other lakes of the region they allude to larger gray trout with white flesh and smaller salmon trout with reddish flesh.

Salvelinus fontinalis (Mitchill.) "Speckled Trout." Brook Trout.

Common in lakes of the region. Taken in Otter, Fletcher and Harvey lakes and others more remote.

Coregonus clupeaformis (Mitchill). Whitefish.

We saw no whitefish. One informant said there was a whitefish caught in the shallows of Hollow lake during the fall and winter. Others state that there is a whitefish in Lake of Bays. Whether these are true whitefishes or ciscos remains to be discovered. Some of the rangers assert there are whitefish lower down at Orillia, Peterboro, etc., but not here.

Lota maculosa (LeSueur). Ling.

This species is reported as very common in Lake of Bays, and Hollow lake where they are caught on night lines.

III.—THE BATRACHIANS AND THE REPTILES.

By A. H. WRIGHT AND S. E. R. SIMPSON.

THE SALAMANDERS.

Nash (1908) gives ten species of salamanders

(2) Nash, C. W., Checklist of the Fish of Ontario. Dept. of Education, Toronto, 1908. Also, "Fishes of Toronto" in "The Natural History of Toronto Region, Ontario, Canada, pp. 249-371.