tenay lake (British Columbia) and I should like to make a few additional remarks on this topic, though I am afraid they will prove of a less satisfactory nature than might be wished. My time during my stay on Kootenay lake last year having been taken up with more urgent concerns connected with some lands and mining matter. I had not much leisure to devote to the further investigation of this ielithyological curiosity.

Towards the end of September and the beginning of October, we found that all the salmon of this species we caught showed signs of enaciation, while their sides and backs became discolored and stained. They also would not bite so freely, and as we were to a great extent dependent upon our rules and rods for the larder, we devoted ourselves in October more to salmon tront and tront. The former, I may incidently mention, grow in Kootenay lake to about the same size as the salmon, i. e., 25 lbs., while the latter averaging about 2 lbs., inhabit the creeks and the outlet of the lake, and give wonderfully good sport, a small and gandy salmon fly proving the deadliest among untutored fish. The Kootenay salmon appear to have re. tained their anadromous instinct, though there are but two creeks emptying in Kootenay lake sufficiently free of high falls to allow saimon to ascend them. One, the largest of all the tributary creeks, called the Lardo, flowing into the lake at the most northerly point, is said to be a favorite spawning ground. Indians reporting this stream to be almost a solid mass of fish in August. The fact that they scoop them out with short-handled and most primitive landing nets each family I was told taking in one day their whole winter's provision would seem to bear out the reported abundance.

The Kootenay river, down which at some time or other the progenitors of these salmon must have come and which is more than 700 miles long, does not seem to be liked by them at least, we did not eatch a single salmon in it. In the lake they seem to prey on small salmon front and front, more than half the fish we caught having small ones in them, some as much as 10oz, and 12oz, in weight.

The Kootenay salmon are, so far as I could judge, identically the same as the specie which, among five or six other varieties, chiefly frequents the Columbia river. It is popularly known as the spring silver salmon.

It is to be hoped that the Dominion Government, under whose supervision the lisheries also in British Columbia are placed, will take prompt measures to prevent a possible extermination of these line lish in Kootenay lake, for, almost impossible as it seems. I have no doubt, were similar vandalism to be perpetrated in this lake as has almost annihilated the fish in Lake Peud d'Oreille, in I-laho Territory, about a hundred miles to the south of it, even Keotenay lake would suffer materially, though, being much deeper than the latter lake, the work of destruction would take somewhat longer. I am referring here to the general use of giant powder (dynamite), which worked such ruin on Pend d'Oreille, covering acres of surface with fine salmon front, which but three years ago were there in untold numbers.

For two and a half years—i.e., during the con-

struction of the Northern Pacific railroad, which runs along the sheres of Pend d'Oreille Lake for thirty or forty miles—some four thousand or five thousand navvies were employed on its banks, giant powder being a commodity not only much used by the contractors, but also much stolen by the hands. A barbaric warfare was soon inaugurated by whites, Indians, and Chinamen, who were largely employed on this railway work, and soon made the mostadept egiant poaderers," finding that they could make very much better wages going out into the middle of the lake and sinking a dynamite cartridge and selling wagouloadsful of their victims at the rate of 10 ceats (fivepency for a 10 lb, or 15lb, salmon trout, than shovelling earth.

On stormy days the shores of this lake, but a few months before buried in the densest and most solitary forest region in the United States, would be simply heaped for mites with carcases of these fish that had not been seenred by the slaughterers, and drifted ashore. The superintendent of the Pend d'Oreille division of this line informed me last summer that, in two and a half years, no fewer than nineteen of his navvies were either killed or lost limbs while giant. powdering salmon trout in this lake a fact which shows to what excess it was need, and that by men who were conversant with the proper handling of this dangerous explosive. The hope, therefore, that Kootemay lake may be preserved, from a similar fate when the construction of the proposed railway down the outlet of the lake will commence, is, in view of what I have related, at least a legitimate one.

While writing, an America:, fishery commission report reaches me containing a not uninteresting ac count of the take of salmon during the last eighteen years by the beats employed by the salmon remneries" (or packing houses) established on the Lower Columbia near the mouth of the gigantic river. shows not only how quickly this industry has assumed almost gigantic proportions, i lustrating the fiercely energetic western man's aptitude for developing a new last ess, but also what vast quantities of salmon ascend the Columbia. In my last letter I stated that the annual take of salmon varied between 15. (6)0,000 and 35,000,000 pounds, the figures of the report indicate that the canneries alone accounted last year for some 45,000,000 pounds (including the waste) leaving unrecorded the vast consumption by the thousands of Indians living along the Columbia and its tributaries, and who are almost entirely dependent upon salmon for their food. Goesl evidence collected by me during my last year's visit to the Columbia shows another and a fatal feature, i.e., that at the present rate there will, in a very few years, be not a salmon, so to speak, left in the Columbia. usual the frontiersman is discounting the future at a startling rate. What has happened with the forest and the buffalo is now being repeated with the said W. A. Banair-Grounds.

In consequence of removal of our establishment we have been delayed a few days in the publication of this issue of the Risounces. Having more room and increased facilities at command, we can be more prompt hereafter.