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OUR POINT OF VIEW

The Economic

Use of Coal

CINCE penning that article of Ifew days ago respecting the employment of cotton in the making of high explosives we have come across an United States part as follows:

"the increased importance of the "by-products of the coke oven and "gas works in Germany has led to ing Germany with important ele-"efforts to increase the use of ments in the making of high ex-"coke by concerns that heretofore plosives. "have used only coal. The government has begun by mixing "certain portions of coke for use "on its railways, and in its build-"ings, and the manufacturers are refined elements has great value close allies of the true salmon and all through the summer. The grains each (about 1-5 oz.) At "following this example. The coke as a fuel. And from an economi-"ovens and gas works are now de- cal point of view this only of all pended on to furnish three vitally important products: explosive "material, motor fuel, and nitro. should be used as ordinery fuel, portant features some of which much nearer the mouths of the 7 inches long at the time it de-"genous fertilizer. It is deemed any other procedure is pernicious especially the length of the anal rivers, as I have seen it spawning scends to the sea. "imperative that the production wastefulness. "of these by-products be stimu-"lated by the increased demand "for coke."

ducts in the making of high explosives.

very clearly how it is that Ger- throughout the world to-day, but curs in all the rivers of the Pacific dense, and of the consistency of ern species. many is maintaining her position it is likely Newfoundland will from the Sacramento to the wa- cartilage or Indian rubber when All the Salmonidæ of whatever on the battlefronts to-day, oppos- wake up "the day after the fair" ters of Alaska. It is the last to placed in sea water, hence the de- genus or species pass through reed as she is by such odds. We as she has peristently done for come in and appears at the end of position of the salmon's eggs in cognized stages. All commence would do well to take a lesson ages. from the German book on internal economy, for it is marvelous.

fuel for Newfoundland.

coal here, and it is quite possible blunder, as was so painfully evi- but it deteriorates rapidly. modern bye-products coke ovens | scandal. might be obtained.

burning coal is very wasteful, a value of the distillation products ory and very formidable. It is of water pours down from the pre- be in minor details the life histor farge amount of the thermal value of the coke ovens. being lost into the air in uncon-

sumed gases and carbon. consequent on the destruction of in the products of combustion bevery valuable elements contained ing free entirely from objection- back or sockeye salmon (Oncor- treme interest. They show that within the coal, which might be able soot and smoke. saved, and the residue which is | We recommend these consider | the genus to which it belongs has habits of the young salmon fry coke—could serve as a cheap fuel ations to the Government, also to 14 or 15 rays instead of the 9 or vary with the conditions surround

* NOTES ON THE HABITS AND LIFE HISTORY OF CANADIAN SALMON

By Professor E. E. Prince, Dominion Commissioner of Fisheries, Ottawa.

**

THE Atlantic salmon of Can-A ada are identical with the salmon of the British Islands and northern European rivers, though minor local peculiarities are noticeable. The head is smaller and more acuminate and the body is more gracefully attenuated both in the shoulder and tail region in the British form.

The Ouananiche, a land-locked salmon of Lake St. John and certain lakes bordering on the international line in the basin of the St. John River and the St. Croix River, is regarded by most authorities as a salmon which, as a rule, remains permanently in fresh water. It has ceased to descend to the sea, though anglers, on the Saguenay River report occasional capture of these fish. The tail portion of the trunk of the fish is much lengthened and narrowed and the tail far more expanded proportionately than in the salmon, and it is forked.

Some experts doubt the correctness of the common opinion that it is a land-locked variety at all, but the fact that smelt, sea-bass and the salmonoids readily become acclimatized to fresh water and the example of the small speckled trout, which becomes so remarkably modified under changed conditions supports the common view regarding the ouanani-

Commerce Report, which reads in stances such as aniline dyes, and the latter the principal element is a valuable fertilizer—sulphate of "Since the beginning of the war amonia, and various nitrogenous compounds. These latter furnish-

Then the coke itself which remains as a waste product after the extraction of the various more the elements contained in coal

and intelligent interest in this ordinary observer, while the more the sea. matter, for the sake of ourselves abundant species (Sockeye) are

tion as a household fuel, in that it Besides this there is the waste is cleanly in the handling and also

the gentlemen who are at present 10 rays of the true Salmones. Its ling them. The observations fur-The extraction of the more furnishing the town with illumin- weight ranges from 4 pounds to ther demonstrated that some run valuable bye-products, we believe ating gas, and in a small measure 10 pounds, though the latter into salt water and that they probwould give good returns for the local farmers with sulphate of weight is somewhat unusual. Its ably go out at intervals in many

Among the valuable bye-pro- It is time we do something, and red colour, hence its value for fish in the streams are regulated ducts obtained from the distilla- any suggestion towards the cheap canning purposes. A deep col- primarily by the food supply, tion of coal are tar and amonia, ening of fuel should receive the oured salmon is more in demand which in its turn may be affected the former the source of an al- ernest consideration of all con- in the canned-goods marke than by temperature or rains.

trout which migrate up the Nepig- mand. stance of the introduction of Eng- the season.

s even more striking.

Isles took place. Now, the trout to been little valued. of British streams rarely averages ture well-grown fish.

ranging from 10 pounds up to 25 October.

ent for three sockeye salmon.

Note the splendid economical This question of a future fuel The dog-salmon (O. keta) 10 or It is our policy to drift like dle of November. It is often loss.

Coke has another recommenda- much used by certain tribes of to ensure a suitable admixture.

Pacific Indians. hynchus nerka) which like all of the dispersive and the schooling flesh is dry but firm and of a rich schools. The movements of the

The brook trout or speckled indeed there is little or no de- short, the young fish instinctively

on River to and from Lake Super- The sockeyes ascend the Brit- water they show no tendency to ior, are notable for their large size ish Columbia rivers in countless congregate in schools. Their num and massive build, and still more myriads during July and August bers in any given locality are dethe searun brook trout which be- or even later and they are follow- termined by how many the place come utterly transformed in ed by another small species the will accommodate and give each shape, size and coloration show Humpback salmon. The two kinds an equal chance to secure its food. how vastly surroundings change often overlap so that nets fished They prefer to scatter and shift the form and external features of for sockeyes take numbers of for themselves. Young salmon in familiar fish. The well known in- humpbacks towards the close of tide water, especially those in

lish river-trout into New Zealand The humpback (O. gorbuscha) schools. is a shapely fish on entering the Prior to 1867 there were no sal- estuaries. Its weight is 2 pounds mon fry 2 inches to 3 inches in mon or trout in New Zealand. to 5 pounds, and like other species length have been noticed in the There was but one insignificant the male becomes curiously mal- Straits of Georgia in the month of salmonoid, an inferior kind of formed. The ridge along the back June which had evidently just smelt. In 1864 the first batch of rises to a remarkable height while passed through the "parr" stage eggs reached New Zealand, but in the jaws lengthen enormously It and had assumed a bright uniform October, 1868, a series of trout ascends a comparatively short dis- silvery appearance and showed no eggs sent from England in 1867 tance as a rule, and the change is indication of the transverse bars were hatched out atOtago and more rapid and observable than it or "parr" marks. is in the case of the sockeye, the In 1869 another shipment was male of which becomes grotesque- attains the size mentioned in taken to New Zealand, and many ly humpbacked. The flesh is about two months after hatching other shipments from the British white and the species has hither- say in June, but the "parr" marks

sidered by British anglers as ma- grow to be 20 pounds or 30 the Atlantic species. pounds. They run very late, the In New Zealand, however, most early schools following close up- ment be reliable that a marked of the trout have gone down to on the last sockeye run, but the salmon, 24 pounds weight and 36. the sea and have become sea-trout main run does not come in until inches in length, had been taken

into the waters of the Antipodes qualities as well as the uncertain- pounds. demonstrates the potency of en- ty of the colour of the flesh, the

the salmon tribe.

September and runs to the mid- the sea would involve their total with the egg, which is deposited

clods, asleep to all that is tran- marked by dark though indistinct | A recent Norse observer, Mr. O. ers and streams where gravel and up We do not want to be accused of spiring about us till we are transverse bars, and shows pale Sagaad, has found by experiment small stones abound and where being visionaries, but we see in aroused by the kick of present green patches about the gill cov- that salmon can be hatched suc- the water is sufficiently shallow to this the possibility for cheaper necessity, and then before we lers and shoulders. It flesh is cessfully if the salinity is 9 per ensure abundant aeration. The have had time to collect our wits stated by Dr. Bean to be of a beau cent strength; but if stronger, or second stage is the "alevin," or We burn a great amount of soft about us, we fall into some big tiful red colour when it comes in, if weaker, say 2 per cent or 3 per newly hatched larva, a delicate cent, the results are as fatal as or- worm-like condition, in which the that with the establishment of denced in the late Reid-Willson All the speciments which I ex- dinary sea water. It is possible large elongated bag of yolk on amined in British Columbia were that some of the so-called salmon the under side, the prominent tint in this country a considerable Germany is encouraging the large, 15 pounds to 20 pounds, and of the Pacific coast may spawn in ed eyes, the slender tail, and the cheapening of fuel for the people universal use of coke as a fuel, the flesh was of a dirty white col- brackish waters or so short a dis- continuous fin-membrane along because she recognizes the waste- our. The teeth were enormous tance up river channels or in coves the bag, are seen in all the species. As is well known our method of fulness of burning coal, and the curved instruments, white as iv- and inlets where abundant fresh Whatever differences there may inferior market value though cipitous mountains adjacent, as of the eastern or Atlantic salmon

The species worthy of reference observations of Messrs. A. B. and it may be divided into seven in this brief sketch are the blue- Alexander and Scofield are of ex- separate stages.

move down stream. In the fresh brackish water, seem to move in

Certainly schools of small sal-

Now the true Atlantic salmon may be retained for a year at The cohoe or silver salmon (0. least when the silvery exterior of more than 11/2 pounds to 21/2 kisutch) is an elegantly formed the smolt is assumed. Hence the pounds—a 3-pound or 4-pound and from an economic point of British Columbia species must trout would be a rarity, though view a superior fish, though the much more rapidly pass through specimens have been reported of pink tint of its flesh is somewhat the various changes characteristic 15 pounds weight. As a rule 1- pale. Ten pounds to 15 pounds of the fry, and probably reach the pound or 2-pound trout are con- is the usual weight, though they mature stages in half the time of

If the widely published statein the fall of 1898, which there pounds weight. In the small! The largest of all the Pacific was evidence to show was one of streams the trout still keep their salmon in the Quinnat, or spring a batch of small fry planted in the normal coloration and show the salmon, ranging from 20 pounds spring of 1897, then our ideas as usual deep-red spots, but as they up to 70 pounds or 80 pounds. to the growth of these fish must grow larger the spots become They are also called Chinook sal- be entirely changed. It is prima fewer and finally disappear alto- mon, and are characterized by a facie improbable that larval fish gether. In snow rivers this takes comparatively small head, deep a fraction of an ounce in weight place when the trout are one-half body and large expanse of tail. (the newly hatched salmon weighs pound weight. The vast changes Its flesh is pale pink, though white the one-hundredth of an ounce) in size, shape and coloration seen and red and white-fleshed speci- should reach in sixteen or eighin the English trout introduced mens are common, and its edible teen months a weight of 24

Indeed I have a number of sockquinnat is not especially prized eye salmon fry in my possession Passing to the Pacific waters of by British Columbia canners, which show twelve or thirteen the Dominion we find a wholly though it is nevertheless used. "parr" stripes, though less dis- who were with the other watches gave ing favourable for us but the end new group of salmonoids abound. They haunt the inshore waters all tinetly than at an earlier stage up from ing there. With such exceptions through the winter and enter the and they are seven months old. as the steelhead and the cut-throat rivers in March and April, con- They are from 2 inches to 31/4 trout (Salmo clarkii) which are tinuing to come in in small schools inches long and weigh barely 50 the English river-trout, the so- spring salmon is stated to ascend the same rate of growth they called salmon of British Columbia | the Yukon for 1,500 miles, but it | would reach 5 or 6 oz. a year later, are distinguished by many im- also resorts to spawning grounds and that is the weight of a smolt

It is time that we take an active scales are apparent at once to the more than 120 or 130 miles from more convincing it is advisable therefore to adhere to the usual It has long been known that or- scientific opinion that most Paci-This would go to show that and for the broader reason, for notable for their small size, dinary sea water has a very in- fic salmon as a rule do not reach Germany is indeed using coal pro- the sake of posterity, whose fuel though chiefly canned, one spring jurious effect upon the yolk which a weight of 8 to 15 pounds in less supply we are cutting into so salmon being counted an equival- is so abundant in the eggs of all than three years, but as it is in and stowed down the amount of 23,000 rich. There were five of us left unevery sense full grown at that Professor McIntosh showed 30 weight in the sockeye and other system of Germany. It is an in- supply is exercising the brains of 12 pounds, is a less abundant fish, years ago that in the young fry of species, its development is far spiration to us all, as it shows us all enlightened governments but its range is extensive as it oc- Tay Salmon, the yolk becomes more rapid than that of the east-

in clear rippling portions of riv-

(To be continued)

JOHNNIE'S DEMAND

A young hopeful of four was a table with mother on Sunday morning, the father being from home for the week-end. "Now. Johnnie." said | belonging to Twillingate. The captain his mother, "you'll sit in father's of this schoon brought on board a The humor of Scotland (according chair this morning and say grace." Twillingate "Sun" which contained a to an English writer) An old gen-"Weel, mother, if I'm to be father full account of the loss of the Eagle, tleman arrived in hot and brethless I maun hae two eggs," returned on the 9th the Aurora returned and state at the railway station. "I say,

And some people make us tired- "A touch of your fiesh mon is as good lage?" The porter replied. "Weel, because we can't run fast enough to as a load of fat." The two steamers sir, I couldna say; but I think it was

On the Battlefield

Comicalities at the Seal Fishery---A Trip With Capt. Arthur.

day we were on the ice that spring

he was ever in the water and being though well past the alloted span. unable to swim created an awful and tell many interesting stories of time all managed to swim to a place A Soldier's Story of safety and all stood to watch the lone man on the growler. It was an

Interesting and Exciting

time. I can tell you. We all expected to see our "master-watch" drowned by the suction caused when the berg went over. Shaughro,' however, held on, and as the growter turned Dear Father,-Just a few lines to he slid down the side and when it had let you know I am alive and still turned bottom up he was still stand- earrying on. I trust you and everying on it, and waited until his ice-rait one at home are well and making had drifted near enough to jump to good. Just finished eight days in the

Shaughro's watch which was the one last couple of days. the exhausted men. We were fitted out of health. The enemy managed to with lanterns and stretchers, and af- put six shells near the part of the ter a hard tramp came upon them. | trench I was in last Sunday, I was'nt 20, some were ice blind and more me, with the force of the explosion. were crippled. Those that were against the back of the trench, I fin, and the comparatively small on a tributary of the Fraser not | Until the evidence is clearer and | weak were placed on the stretchers, was dazed for ten minutes. whilst the blind men were led by the Time passes quickly, a fellow can't hand to the ship. By 2 a.m. all were keep track of all. I lost my pall last safe on board, though badly broken week by shrapnell. Heaven knows up. Two days later the steamer got how I escaped, but as you said when clear and we were able to pick up I missed going down in the Elireda

Was Our Total Catch

for that spring. The first steamer which arrived in St. John's that year letter from you. I suppose you are How the rumor got about is attributed all up to your eyes with work. I to the fact that two days after leave pray the fishery ing St. John's a fierce gale prevailed. in Newfoundland this years. News is A quantity of our deck gear was wash- very scarce with me. We accounted ed overboard and was picked up by for three hundred of enemy this day some steamer. Those on board con- for about half an hour's work Well eluded that we had been lost or blown good bye father, give my love to all

March, off the Horse Islands, where trust I'll meet you soon. during the spring, we were repeatedly jammed. The seals were seven miles distant from us and for this load we had to travel the entire distance, seven miles to pan them. The fact of

and not being reported by any steamer, gave color to the rumor of our

The S.S. Aurora, Capt. Jas. Fair- in Egypt against the Turks. Now he weather, was dispatched from St. is in Asia, Mlnor. He has been in John's to search for us. On the 8th quite a few engagements and so far of April she sighted us and recognizing us passed on to Twillingate to is typical of the allied species in report to St. John's that we were said will read with interest his letter In this connection the published our eastern and western waters We were then jammed about three which we publish herewith. Ed. miles from clear water with all our seals on board. Nearly all the men ran to the edge of the ice to speak the Auroa but she did not stop. After My dear friend, who to the country flest reporting at Twillingate sne returned, This year in keeping chickens. but in the meantime our steamer got Since then his wifes new flower bed clear and where the ship lay up for 1s looking like the dickens. the night at the edge of the ice we Spoke a Schooner

Owing to the illness of our old wind prevailing. Captain Fairweather friend who is supplying the material remained on board the Eagle for five for these series of articles we were hours, when he boarded his ship and unable to continue them during the sailed north. The Eagle also got un past few days, but now that he is al- steam and started for home. About right we have much pleasure in pre- half an hour after leaving, a fierce

ment he was heard to give one unmer- years ago, so Mr. John Shaugro-the

of Gallipoli Fight

1st. Naval Brigade. B. M. Expeditionary Force. June 23, 1915

This growler incident delayed us the rest camp, which is about three much and it was dark when we set miles from the firing line. Well, we up. A number of the 'green-horns, little, slow but sure; things the go-

The over-come men numbered about hurt but the last one fairly lifted

her pans of seals. We hoist aboard May, its better to be born lucky than

We struck the seals about 22nd line. Take care of yourself and t

Good Bye CHARLIE.

The writer of the above letter is a Chelsea, T.B. He has been absent from home for over four years, having been living in England. On the outdoubt but lots of his friends at home

CAUSE AND EFFECT

* * * HIS REPLY

Capt. Fairweather came on board, porter," he panted, "why do they put His greeting to Captain Arthur was the station so far away from the vil-