Canadian Coals for **Power Production**

Super-power Statious at Coal Mining Centres to Develop Cheap Power

Canada is well supplied with water power, with the exception of the central portion of the middle West, which must produce its 2,490 tons, burned 1,127 shovelful electrical energy and other forms of power mainly from coal man on another train of 50 cars, or other fuel. As some of the largest coal reserves of the world territory who burned only 810 are found in this and adjacent shovelsful. territory, however, we may anticipate that with proper organization, the power can be produced and offered to industries at rates Pacific Salmon First as low as if derived from the most favourable water-power sites.

The importance of Canada's coals is pointed out in Power in Alberta, by James White. The author points out that "Alberta contains 87 per cent of the coal in Canada, but the estimate in Coal Resources of the World states that 82 per cent of the coal in that province is lignite or sub-bituminous. Practically the whole of the settled portion of the province is underlain by this valuable fuel, and the statements in the preceding paragraphs respecting the relative costs of steam-electric and cial scale occurred, however, on hydro-electric power, indicate the desirability of investigating the The first pack of 2,000 cases was economics of steam-electric power generated at super-power stations and transmitted to the municipalities within easy transmission distance, say 100 miles or more

In Coal Resources of the World it is stated that southern Saskatchewan contains lignite seams, valley of the Souris river, are being mined. A seam in the Estevan year, 1884. field is reported to be 15 feet in In 1876. thickness in places, while, north of this field, coal has been reported near Cullen, Arcola and Wauchope. West of the Souris river, coalseams of workable thickness are found over a very large area. It is estimated that, in Saskatchewan, an area of 11.840 square miles is underlain by coal seams.

Recently, a super-power plant has been constructed in Germany to supply electrical energy to Berlin. The energy is entirely produced from lignite. The plant, which has been designed and installed in accordance with the most modern practice, has a capacity of 180,000 h.p., which compares approximately with the size of our larger plants at Niagara Falls.

Conservation of Coal in Railway Service

The enormously increased cost of coal has induced attention to the possibilities of fuel economy in the firing of locomotives. During the year 1917 alone the average value per ton of bituminous coal at the mine increased 94 per cent in the English railway and a locomotive Convention).

on a Canadian or a United States Protecting line demonstrates that, on this side of the Atlantic, there is a lamentable and unnecessary waste

of valuable fuel.

On the Pittsburgh division of the Pennsylvania railroad it was found that a fireman on a certain freight train of 46 cars and weight of coal as compared with a fireweight 2,520 tons, over the same

Canned on Fraser River

The first salmon canned on the Pacific coast were put up at New Westminster in 1863, by a Mr. Annandale. His operations that year, however, were on a very limited scale. In 1864, he became associated with Mr. Alexander Ewen, who, from that date till his death in 1907, was the recognised leader in the salmon industry in British Columbia.

The first salmon canning on what may be termed the commerin cans soldered by hand. It sold for \$15 per case but the high costs and the deductions for defective tins precluded any profits. In 1866, the operator, a Mr. Hume, transferred his activit s to the Columbia river. He lived to see the pack in that district increase many of which, especially in the from his pack in 1866, 4,000 cases, to 656,000 cases in the "banner

> In 1876, there were three canneries on the Fraser and the combined pack was 9,347 cases. In 1901, there were 48 canneries on the Fraser and 25 in Puget Sound waters canning Fraser River sal-mon, or 73 in all. In the "banner" year 1913, the total pack of Fraser River sockeye was 2,392,000, or over 115 million pounds (57,600 tons). This represented 30 per cent of the entire world's production of canned salmon in that year. At present prices, it would be worth about \$50,000,000.

Owing to a disastrous rock slide in the Fraser river in 1913 and to the overfishing of the depleted "runs" of sockeye, the total pack of this fish in 1919 was only 74,000 cases or 31 million pounds.

Fishing on the Skeena river commenced in 1877. To-day, owing to the eclipse of the Fraser fishery, it is the principal salmon river of British Columbia.

Commencing in 1878, with a pack of 8,159 cases by two canneries, the Alaska fishery increased till, in 1918, 134 canneries put up Overfishing, 6,678,000 cases. however, has created a situation which demands drastic changes United States and there have been in the regulations. (Condensed sent out a fleet of whalers and resources, and the efforts of the further increases since. A com-from History of the Pacific Coast fortunes were made from their Commission in the past have been parison of the amount of smoke Salmon Industry, by Mr. Henry operations. As whales became directed primarily to that end emitted by a locomotive on an Doyle at the Vancouver Fisheries scarcer trips involved more distant rather than toward hampering of

Residential Areas

Residents should be Secured against Encroachment of Business Interests

The following advertisement recently appeared in a Halifax

application has been made to the Building Inspector by the undersigned for permission to erect a shop on west side of Elm street lodge a copy of said objections with the Building Inspector, City

The City Council of Regina, Sask., has before it for consider. ation an amendment to the fire limits bylaw, which, if passed, will prohibit the opening of busiplaces in the residential districts of the city.

This legislation is in harmony with the efforts of the Town Planning Branch of the Commision of Conservation, which, for the protection of residential areas, has consistently advocated the zoning of towns and cities.

Unless a property owner has some guarantee that his investment will be safeguarded, there is little inducement to build or improve a home, even in the best business men a decided prejudice residential districts, in most of against the conservation move-our cities. In an eastern city, a ment. Unfortunately, the ranks permit was recently issued for the of conservationists have not been erection of a wood-working factory in the heart of a residential section. Although the residents formally protested against such construction, urging that the area was purely residential and that energy and capital to the develop the insurance rates on adjoining ment of our resources, conclud property would be considerably enhanced, the permit was not revoked.

should contain provisions to protect residential areas and for the securing of neighbourhood assent to the erection and operation of business properties which were considered undesirable by those resident in the locality.

Under the amended bylaw in Regina, it is proposed to provide for such conditions by requiring the signatures of a substantial proportion of the property owners ductivity at that pitch. To with in any block, in which it is proposed hold any natural resource from us operate business premises, before permission will be given by the city.

The requirement that proposals to erect such structures in a residential district be publicly advertised before a permit issued also seems to be a desirable public safeguard.

Annihilation of the Whale

A century ago New Bedford, Mass. and other Atlantic ports, voyages, and many of these New restricting exploitation.

England vessels found their way into Pacific waters. To-day the California Gray whale, the Right whale, the Sperm whale, are almost exterminated and the Humpback species is rapidly following. In 1911 the pinnacle was reached in whale fishing, over 21,000 of these slow-growing animals being desyear. To-day troyed that Notice is hereby given, that Finback whale, a species formerly considered unworthy of notice is the principal object of pursuit, and it too bids fair to soon follow in the pathway of the more valushop on west sate of Fall steets the theory of the Hore sub-between Chebucto road and Oak street. Any person objecting to the erection of this building within the residential district, should lodge a copy of said objections for the street of the street June 4, 1920.

Development

The service that the Commission of Conservation has been endeavouring for over a decade to render to Canada is that of studying the facts in regard to the extent and use of our natural resources, so that public opinion and action in regard to them may be founded upon conditions as they actually exist. The Commission has never subscribed to the narrow interpretation which has often been placed upon the word "conserva-tion" and which has given many free from the scaremonger, who is constantly seeing blue ruin an doing more harm than good. preaches such extremes that the that the average conservationis is merely a faddist who, if he had All building laws in cities his way, would lock up resource to and kill development. Let it Let it b unmistakably understood that such is not and never has been the atti tude of the Commission of Cons vation in regard to any resources.

It has been the guiding principle of the Commission that the onl proper way to conserve resource is to develop it to the poi of highest productivity, and to us every means to maintain its pro ductivity at that pitch. To with under proper conditions-whether it be a fishery, water-power, timbered area or any other resource, is waste in the grossest form. The person who preaches any other policy under the guise or label of 'conservation" is misrepresenting and injuring the real policy for which that word stands

The sole purpose of the Conservation Commission is to seek to conserve our natural wealth against avoidable destruction—not agains development. The crying need in Canada, to-day and for years to come, is to increase the use of our

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