Flies from Halifax to Grand'Mere

Aircraft to be Used for Forest Patrol on St. Maurice River Watershed

The feasibility of an aircraft patrol for the discovery and location of forest fires is to receive a thorough try-out this summer, in both Canada and the United States.

In Canada, the sponsor for the experiment is the St. Maurice Forest Protective Association. which protects an area of some 13,000 square miles of forest country on the watershed of the St. Maurice river, Quebec. The Provincial Government of

cash grant. Through the generous co-operation of the Department of ing to the Dominion Government, have been loaned to the Association. An experienced aviator has been secured, together with mechanics and other necessary staff.

The headquarters of the new scheme of patrol will be near Grand'mere. It is expected that Lieut. Stuart Graham, the aviator, will maintain a daily patrol, covering the entire area of Association territory once every two days. This patrol will supplement the efforts of the regular patrolmen, who will still continue to travel by canoes, by motor cycle, by automobile, by railway power speeder, or on foot, in the old-fashioned way.

Lieut. Graham has himself flown Halifax to Grand'mere, this being the first journey of the kind under-

taken in Canada.

The application of aircraft to forest protection is new, and the experiment will be observed with the closest interest. It is expected that work will also be done in the direction of ar ial photography of timber limits with a view to securing accurate information relative to drainage, forest types, etc. including the ascertainment of areas burned-over, cut-over, and reproducing to young growth, as contrasted with virgin forest. That an experiment of this kind

should be undertaken this summer is a strong tribute to the progressiveness of the St. Maurice Forest Protective Association, the Provincial Government of Quebec, and the Dominion Government.

In the United States, arrangements have been made for close co-operation between the War Department and the Forest Ser-Definite routes have been laid out for the patrol of National Forest areas, particularly in the western states. Observation balloons are also being used as forest fire look-outs. A case has already occurred where a specific fire was discovered in this way at the foot of the Sierra Madre mountains. Within seven minutes after the fire was discovered, enlisted men in a special fire truck had arrived, and the fire was promptly extinguished. The forest patrol planes are equipped with wireless and maintain communication with permanent stations. Emergency landings have been provided.—C. L.



ROCKSLIDE, HELLGATE CAÑON, FRASER RIVER, B.C.

Cut No. 189

A Prophecy Fulfilled

(Continued from page 27) Quebec is assisting the project by a glimpse of the crowds of fish held cash grant. Through the generous back by the obstacle. Although presenting Canada and the state of the slide was removed before 1914. Marine, two hydroplanes, belong- it was too late to allow many fish of the 1913 run to ascend the river, and, in consequence, most of the 1906 and 1908 conditional upon sockeye of that year failed to identic action by that state. spawn.

It was feared, therefore, that the the desired action, run in 1917 would be seriously In 1908, Great reduced. The fear was only too well-founded. The pack for that year in the Fraser River district was only about one-fifth of that in 1913, and there is little doubt that States Senate, after years of delay, the pack for 1921 will be still less. In fact, the phenomenon of the "big run" has been wiped out and. now, all years are lean years for States Senate. It provides for an scekeye, so far as that district is international commission of two concerned.

The fishery might be situation. the two machines through from perpetuated and in some degree the fishing as may appear desirable restored if conservative fishing were practised and if sufficient fish were permitted to pass up to the spawning grounds. Unfortunately, tions will be acted upon. Other-Canada cannot of herself limit the wise, the Fraser River sockeye is fishing, as the sockeye, in its course from the ocean, passes through tion. Canada has done and will waters under the jurisdiction of the do all she can to preserve this state of Washington. Canada has valuable food fish. The fate of repeatedly manifested her willing- the sockeye lies in the hands of the ness to enforce remedial measures. state of Washington.

Following an investigation in Washington, the Dominion offered to suspend all sockeye fishing in the Fraser River district during State Legislature refused to take

In 1908, Great Britain and the United States concluded a convention providing for the protection, preservation and propagation of the sockeye, but the United within reason. refused to approve the treaty.

This year, a new treaty awaiting action by the United Canadians and two Americans to Another factor enters into the make investigations and to make such recommendations governing

> It is earnestly to be hoped that this proposed treaty will go into effect and that the recommendasimply threatened with extermina-

British Columbia Slash Burning

Amendment to Forest Act Provides for Reduction of Fire Hazard

The province of British Columbia is becoming alive to the fire hazard which threatens its great asset, the forests. An amendment to the Forest Act, now before the Provincial Legislature, makes it compulsory in future for operators to burn their logging slash in a manner satisfactory to the Forestry Department. In the case of lands in respect of which an annual tax is payable to the Forest Protection Fund, the expenses incurred in disposing of the slash are to be borne half by the person or corporation carrying on the operations and half by the Fund.

In the case of neglect to comply with the Act, the Government's forestry officials may dispose of the slash and the expense of so doing will be recoverable from the person or corporations concerned. It is also proposed to burn old

slash, created by former logging operations to save the cost of patrolling such fire hazards.

Alpaca from Waste Wool

Mr. (later Sir Titus) Salt, who had been for some years connected with the woollen manufacture, happened one day in 1836 to notice Liverpool some three or four hundred sacks of alpaca wool that had been imported from time to time from South America, in the hope of finding a manufacturer who might buy them for some purpose. Several men had tried to work up this new material, but without success, so there it lay for years, no one seeming to want it, till Mr. Salt came across it and, after a number of trials, in which he modified his wool machinery to suit it, adapting it afresh and overcoming many obstacles, finally solved the problem by adopting cotton warps, and soon after put on the market a new material, alpaca, a soft, glossy, elegant fabric, which so took the fancy of the public that, in some fifteen years, Mr. Salt amassed an enormous fortune, which thus enabled him to carry on the great philanthropical work which made him famous.

Detection of Water Waste

Striking Possibilities Illustrated in United States Water Works System

The absolute necessity and gre value of taking means to dete and control water waste in a wat supply system are being more a more clearly demonstrated. special means now available th's purpose when applied to system operated as was custom in the past, invariably reveal a locate numerous wastages at losses, allowing these to be ear checked and curtailed.

A striking example of what or ditions may exist in other system is given by a municipality of sor 30,000 population in the state Ohio. A recent survey by profe sional water savers resulted in the curtailment of the total was pumped by more than one-hi This may at first seem an exagge ated statement but an analysis the various losses revealed a stopped shows that it is ou

As is usually the case, the lo were principally due to leakage as illegal consumption. The illeg use detected was very large a practically confined to one co sumer, a bottle works, the wat being taken through a cover connection to the fire line for property. The Company d claimed any knowledge of connection although it was bei used by them regularly for cool purposes

The following shows how the daily consumption was reduced: Consumption before survey

Consumption after survey 2,087.0

The decrease was made up follows:

eakage detected and stopped Illegal use stopped. 805,0 Unaccounted for 500,0 The "unaccounted for" decrea

of 500,000 gallons was attribute by the experts to the voluntar action of an illegal user who fear That is, it was assum detection. that another large consumer b came aware of the investigation and discontinued the illegal use water before detection.

The costs in connection with t above-mentioned survey are als interesting to note. The contra price for the entire work by experts was \$2,600, while the ext expense incurred by the mun pality in connection with survey is estimated at \$2,600 more On the other hand, the Comp caught using water illegally offer to settle for \$6,700 in payment the water used, but the muni pality is suing them for \$4' 00 L. G. D.

The owner of a timber tract may seit is none of the public's business widoes with his property, but as a matter it is the business of the public to take a fall interest in forests and lumbering! of the influence which the forest haclimate, water supply, fleel supply, be operations and upon bird and game life Conservationated, New York