## Even Light Burning Injures Pine Forests

ery

atch

such

still

the ster

but

ply

hat

day

ght

our

ugh

ally

eds ars

in-

as

low

in

thy

ter

hes

ırs,

ich

in-

listor

an

nd

ın-

The effect of light surface fires on pine timber is to kill or damage more than half of the mature trees, according to findings just annunced by the U.S. Forest Service.

The studies were made on the Wallowa and Whitman national forests in the Blue Mountains of eastern Oregon. Several typical stands of western yellow pine, where surface fires had recently burned, were selected. The region had been periodically run over by such fires for a long time. The most recently burned areas were carefully surveyed and all the trees individually studied to find the effect of the fire.

As a result of this survey the following facts were verified: a surface fire fells from one to three merchantable trees per acre, by eating out basal fire scars; it makes fire scars at the base of 42 per cent, or nearly one-half, of all of its assets, it cannot be charged the merchantable yellow pines; it that the setting of fires by local action as will not only stop the spreading of fires, but will get to the root of the evil—carelessness.

"It has been estimated that the revenue derived by a railway from the production of one acre of heavily timbered land is equal to the accumulated traffic of an per cent, or nearly one-half, of all the merchantable yellow pines; it actually burns to death more than 3 per cent of the trees—that is, they are killed by the heat of the surface fire at their bases. In short, of the mature trees, more than one-half of the total stand suffer more or less damage.

The stands were selected to insure results representative of the region, according to the Forest Service investigators, who draw the conclusion that deliberate light burning in such localities to re-move brush and undergrowth is move brush and undergrowth is ning fires, distinctly uneconomical, particular burn- "But both Provincial and "But both Pr ings only heighten the injury to the trees and make it cumulative.

## Forestry Progress

Educational Devices Employed by Forest Fire Protective Associations

"Progress in forestry depends more upon what the public per-

"As a consequence," the committee goes on to say, "public education is of prime importance, and the best methods of educating the public demand special study. Since no one else has the interest nection for fire between the burner established. I might also ments and the forest. An investigation is didition to their own. It is not forests, but the use of forests, which we seek to pertuate and therefore, to be sound and convincing, education must include a knowlege of the lumber business."

nection for fire between the burner established. I might also mention is being and the forest. An investigation is the operation of burning the log that the logging roads, the pertuate and therefore, to be sound and convincing, education must include a knowlege of the lumber business."

nection for fire between the burner established. I might also mention is being on the parament of Labour. During six months, this law, in New York is along the properties of the operation of burning the log sign slash was carried out with forests, are responsible for a much of May."

It would be well also that the definition of labour be amplified, as brain work is more exactly and the parament of Labour. During six months, this law, in New York is along the parament of Labour. During six months, this law, in New York and the forest. An investigation that on the largest of these reserves the operation of burning the log.

It would be well also that the definition of labour. During six months, this law, in New York and the forest. An investigation that on the largest of these reserves the operation of burning the log.

It would be well also that the definition of labour. During six months, this law, in New York and the forests, and the forests, and the forests, and the forests are the sum of the properties of the parament of Labour. Both and the forests are the forests th or the requisite forestry knowl-

## Attitude of Railways Towards Forest Fires

Vice-President of Canadian Pacific Expresses His Views on Situation—Policy of Construction, not Destruction, Must be Pursued

While it is not possible to agree larger potentials fully with the statement as to the the standard roads.

"A better system of patrolling artifulded At While it is not possible to agree | larger percentage of fires than are panies in the past on the forest fire situation, the following exmust also be instituted. present the way of doing the tracts from an address by Mr. George Bury, Vice-President of the Canadian Pacific Railway, at the Winnipeg Convention of the patrolling is not steady enough nor done by men who are capable of taking the initiative in times of stress. All of these deficiencies Canadian Forestry Association, are matters that this Association are of great interest since they must press still harder upon the bring out very clearly some governments responsible for such features of the general situation action as will not only stop the

to the accumulated traffic of an acre of agricultural land for 80 years. You will thus see what the preservation of forest adjacent that the setting of fires by locomotives is due to carelessness, for that would be burning up one of the greatest sources of revenue. Not so, however, the fires started in unprotected slashings left by road builders, others left by to its lines means to a railroad. The opening of timber tracts by a railway is followed by an influx road builders, others left by settlers, fires left unquenched by of trappers, prospectors, surveyors and settlers, each intent upon his prospectors. A trip over roads own interest and without the built by provincial governments in recent years has shown that no restraint of organized authority.
Prospectors impatient to follow precaution was taken to dispose up their discoveries, loggers cutof the slashings, but that they were simply left where cut and ting the virgin timber and home-steaders clearing land for the plow, have all been responsible for the starting of fires. But long

Federal governments must go further than either has yet done. The open burner of the sawmill must be abolished; prospectors who leave unquenched fires must Depends on Public be followed and punished; government road-building gangs and umbermen must be made to put out their camp fires and effectively dispose of the débris of the camp as well as burn the slashings; sawmills must be made to set mits than upon what foresters and lumbermen perform." This well as institute better patrol of is a conclusion of the Forestry the timber limits and in the Committee, as expressed at the vicinity of the mills. While great Conservation Congress held at advancement has been made in these lines in the past few years, protection of our own timber lands in British Columbia. In the Cranbrook District we have even greater must be made. logging railways must also be some 543,486 acres in twelve Tie Reserves. On these reserves, brought under better supervision. On lines of these railways they seldom clear the right of way; the accumulation in yards adjacent to mills must be disposed

before railways, prospectors or surveyors traversed the country,

fires were set by natives to drive out the game. Modern thought and a policy of construction in-

stead of destruction has sup-

planted the native's idea and also

the primitive lumberman's that

the lumber areas would last as

long as people now living de-manded it, and that nature would

supply an alternative. Man must

assist nature in supplying the

## Fox Farming in Yukon

Animals Dying in Captivity—Shipments to Eastern Dealers The enthusiasm concerning fox

catching and farming in Yukon has materially waned during the past few weeks, owing to the fact that the price of foxes has de-creased nearly 50 per cent since last summer and that hundreds of foxes held in captivity have died from some unknown cause. Many of these foxes were black, and, in some cases, as high as \$1,500 to \$2,000 had been paid for them. One dealer who, it is said, could have sold his stock of foxes in July for \$65,000, sold two weeks ago for less than \$35,000, the latter price being, to some extent, due to the decline in prices, but, also, to the fact that many of the animals had died in the meantime. One young black fox, for which \$1,600 had been paid, died five days after being placed in the corral.

Owing to the decline in price, fully 150 young foxes, all of the red variety, held in captivity in southern Yukon, have been turned out to return to their native haunts in the wilds. Previous to sickness developing among foxes in cap-tivity here, upwards of 200 young ones had been shipped from White-horse alone, to fox ranches in New Brunswick, Prince Edward Island, and to dealers near Boston. Mass. At present there are not over 50 held in this locality.

A number are experimenting with mink farming, but great difficulty is experienced in keepthem, wire corrals offering little resistance when they seek their freedom.

Owners of black and silver gray foxes are not discouraged over the slump in prices, but contend that they will be more valuable than ever within a few months.—U. S. Consular Reports.

PHYSICAL EXAMINATION FOR WORKING CHILDREN

alternative, and this is being done by forest preservation.
"I would now call your atten-Upon the recommendation of a special commission in New York tion to what we are doing for the State, the legislature has enacted that, before a working certificate is issued, a thorough physical exam-ination of every child shall be made by a medical officer of the Department of Health, and that mounted patrols have been estab-lished; on three of them trails are of such physical examination being cut out to make them easier shall be transmitted to the Debeing cut out to make them easier is that the transmitted to the Deof access; and on four of them telephone communication is being established. I might also mention city alone, prevented 324 physitation the largest of these reserves cally unfit children from going to the operation of burning the log.

bicuite a knowlege of the lumber protective associations. One debox legend which points out that, will be a match has a head it canconditions the environment during the devices the committee commended particularly the booklets of a forest fire, and of the evils of the evils of the evils of the vils of the vils of the will be prepared by various forest fire its effects. Still another is a match