Commission of Conservation

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Chairman JAMES WHITE

Assistant to Chairman and Deputy Head

Conservation is published the first of each month. Its object is dissemination of information tive to the natural resources of da, their development and the er conservation of the same, together with timely articles covertown-planning and public

he newspaper edition of Con-VATION is printed on one side anti- of the paper only, for convenience in clipping for reproduction.

OTTAWA, JULY, 1917

Mosquitoes

Abolish Breeding Places to Eliminate the Pests

One of the worst summer pests with which humanity has to contend is the mosquito, and yet those who suffer most usually do least to abolish the cause. Most people enyour to protect themselves from quitoes, but the place to secure greatest results is where they

losquitoes breed in stagnant er. Rain-water barrels, old tin s or pails partly filled with er, and stagnant pools offer wele breeding places. These should either drained or protected. ole at summer resorts and pers in wooded districts are h troubled with mosquitoes and pest greatly minimizes the per who would spend their ners in the open air.

prevent them breeding, stagwater, if it cannot be drained should be sprinkled with lowle kerosene, which will quickly a film over the surface and ent the larvæ coming to the ace to breathe.

or protecting the person from uitoes, many substances may ed to rub on the hands and nal. one being composed of one each of eastor oil, alcohol and der water; another, one ounce of citronella and four ounces en used to good effect and the is not objectionable.

Drowning Accidents

CLIFFORD SIFTON, K.C.M.G. Many Lives Uselessly Sacrificed Through Carelessness

> Each year many lives are lost by drowning accidents. Carelessness and bravado are the chief causes, consequently many lives might be saved by the exercise of caution.

Learning to swim is of course the first essential in the preventing of Manure as drownings, but, even in this, there is an element of danger, as the learner is often tempted to go beyond his depth before fully competent to take care of himself. To keep within his depth is the only safe way for the beginner.

Carelessness in the use of rowboats and canoes has claimed many victims. Ordinary common sense only is necessary to overcome these drowning accidents. These frail craft are only intended for the use of those who know how to use them, and safety depends upon the occupants refraining from moving about.

The use of high-speed motor boats of late has added its chapter to the record of lives lost by drowning. Lack of speed restriction on our inland lakes and rivers has encouraged the "speed fiend," and consequently many accidents are due to his running down or swamping rowboats and canoes, as well as collisions with other motor-boats.

These accidents are avoidable, and the most elementary application of 'safety first' principles would save to Canada many needlessly wasted lives.

Costly Toys

Parents Responsible for Much Fire Loss and Many Deaths of Children

*** * * residence was almost completely destroyed by a fire, caused by a child playing with matches. The house was soon a mass of flames and the blaze beyond control. The fire threatened to spread to other frame buildings, but the firemen succeeded after a hard fight in confining it to the house in which it started."—Ottawa Jour-

"Great oaks from little acorns grow" may be said to have its application in the small beginnings of our great conflagrations. All fires uid vaseline, while oil of cassia are the same size at the start, circumstances alone being responsible for their control. If means for exre are many powders on the tinguishment are at hand, the fire et which are more or less effi- may be quickly put out, otherwise insecticides. The foresters of no one can tell where a fire will end. ommission of Conservation, in In far too many cases, playing with surveys, have used a powder, matches has resulted in fires and which was found very the death of children in Canada. into the neighbouring districts, and fascination for human nature, as irrigating ditches.

is evidenced by the throngs which Great Waste gather to witness a fire. This has its counterpart in the young child. who early learns that the match will provide fire, and consequently con ceives a deep-rooted desire for them. Parents have a great responsibility in the matter of not only teaching their children the in keeping the matches away from them and in a safe place.

Fertilizer

Equal Results Secured with Fresh and Rotted Manure

Perhaps one of the most remarkable results obtained in our experiments with fertilizers has been the discovery that, as far as ordinary farm crops are concerned, fresh and rotted manure, applied at the same rate, have given practically equal yields. The explanation for this is not easy to find, since rotted manure, weight for weight, is very considerably richer in plant food than fresh manure. It probably lies in the better inoculation of the soil with desirable micro-organisms for the conversion of soil plant food into assimilable forms by the fresh manure and the greater warmth set up by its fermentation in the soil affecting beneficially the crop in its early stages. But, be this as it may, we have the practical deduction that there is no concomitant gain from the use of rotted manure, in the ordinary farm rotation, for the labour involved in rotting it and the large losses in organic matter and plant food that inevitably accompany the operation. quicker the farmer can get the manure into the land or onto the land the better, for it is never worth more than when first produced.

The manurial value of clover need not be dwelt upon at any length. Our work in this connection is fairly well known throughout the Dominion. It has been of an exhaustive nature and has yielded most satisfactory results; indeed it would be difficult to overestimate its value to Canadian agriculture. Chemically, physically and biologically, the growth and turning under of clover improves the soil, and we have been enabled to demonstrate over and over again that a erop of clover in the rotation has a manurial effect equal to an application of farm manure of ten to fifteen tons per acre.-Dr. F. Shutt at Eighth Annual Meeting of Commission of Conservation.

Near the town of Tsingyuan, China, a large irrigation project is being carried out. Canals have the distribution of the deal o

in Logging

sary to Supervise Logging

danger of lighting matches, but also United States Department of Com-A recent report issued by the merce calls attention to the very large amount of waste which occurs in converting standing timber into lumber. Waste in logging occurs in a number of forms. many cases, the tree is cut unnecessarily high, leaving a large amount of the most valuable material to rot in the stump. Young trees are frequently not protected from falling timber. Immature and defective trees are cut and rejected. Large limbs, tree tops and lodged trees are left to waste. Small bodies of timber in comparatively inaccessible places are often left standing. Trees broken in falling are generally left, as are also short log lengths. In the United States National forests, where modern methods of scientific forestry are practised, this loss is about 10 per cent, but in general practice 15 to 20 per cent s not too high an estimate in considering the logging industry as a whole. Undoubtedly, the same percentages would apply also to Canada, unless, indeed, they should be increased.

The forest resources of Canada are by no means inexhaustible; in fact, our resources of saw timber are only about one-fourth those of the United States. One of the most practicable and effective means of conserving these resources is to avoid all unnecessary waste. That great waste still occurs in our woods cannot be questioned, and a good deal of it could be avoided.

The great bulk of logging in Canada is on Crown timber lands, under regulations imposed by Dominion or Provincial authority, as the case may be. In most cases, these regulations are inadequate either to prevent unnecessary waste or to provide satisfactorily for the re-establishment of the forest on eut-over lands. Further, the enforcement of such regulations is for the most part also inadequate, due to lack of sufficient inspection of the right kind, on the ground. The establishment of technical forest services, with adequate staffs of trained foresters, in direct administrative contact with all cutting operations on Crown lands, will be necessary before a satisfactory solu-tion of this problem may be anticipated. A beginning has been made in this direction in Canada, but much still remains to be accomplished. Just at present, foresters are not available, due to the very heavy percentage of enlistment from this

out."