onservation

a monthly bulletin published by the Commission of Conservation, Ottawa, Canada.

VOL. IX

OCTOBER, 1920

No. 9

Curtailing Waste in Water Supply

Meter Systems Eliminate Careless-ness and Compel Attention to Leaks

throughout Canada of the necessome cases the consumption is of the waste is realized by the output becomes double the legit- posing bag limits, restrictions on officers in charge when the limit for which the system was designed has been reached. Costly extensions are then necessitated to supply the wasted water and the rates for water must be readjusted upward. These high rates must be applied indiscriminately both to the careful and the careless user

One of the larger cities in British Columbia recently narrowly averted a water famine caused by excessive waste during a dry period and steps have now to be taken to provide an additional supply at considerable expense. In another city, in Alberta, the cost of carrying each flat-rate consumer has been noted to increase by \$1.20 during the past year. The City Commis ioner, urging the installation of service meters to remedy conditions. officially reports there are many hundreds of plied at flat rates which are less han cost, and, on the other furnished is wasted. and, there are many flat-rate han the cost of the water which they are using

hat, as an integral part of the borne rogram of conservation, water

ot sufficiently appreciated. When a water-works sysnbing fixtures.

realize their significance. Yet a Positive Action in leaky water closet may waste without attracting attention as much water as would supply Mere Restrictions are Not of Them-

"As time goes on people become accustomed to the waste of water Much evidence is manifest in their houses and indifferent to sity of immediate action to curtail American cities where the meter tion, in adequate numbers,

Game Conservation

selves Adequate to Preserve Wild Life

The aim of game conservation it; and it is the experience of may be said to be the perpetua-the property. The place is ideal American cities where the meter tion, in adequate numbers, of for grouse and ducks, and shore waste in water supply systems. In system has not been used that the every valuable species of wild life. consumption always increases more To achieve this result, it is not on the lake front. Nest-boxes almost double the amount of rapidly than the population. It sufficient that our policy be simply water actually required. The effect may be a long time before the negative, as, for instance, in im-

UNDER AVERAGE WATER RATES AND PRESSURES THIS IS THE WAY LE.

	RUN INTO			
Each 1-64 inch leak wastes 2 gallon- Each 1-32 inch leak wastes 8 gallon- Each 1-16 inch leak wastes 31 gallon- Each 1-8 inch leak wastes 137 gallon- Each 1-4 inch leak wastes 514 gallon- Each 1-2 inch leak wastes 514 gallon-	is per hour and	easts	. 5e. 21e.	per day

that imate use; but after that point is methods of killing, close seasons reached, the rate goes on with etc. We need also to do something puses where water is being sup-greater acceleration until three-positive in the way of directly enquarters of all the water that is couraging the propagation of game.

payers paying considerably more is that a time comes when the new in this direction. The buffalo and works required to supply the ever- the prong-horn antelope, to menincreasing waste become so large tion only two species, have been Mr. G. A. Johnson, Consulting and cost so much to build, that rescued from extinction by the

aste prevention is of cardinal of water daily to cleanse the per- widely distributed. The saving that can son and surroundings of the avereffected by intelligent and per- age citizen, carry away his sewage, of large area, like the big National stent effort in this direction is cook his food and provide him parks in Alberta. Nor is it neceswith drink, or to furnish his share sary that it be maintained by any Hazen, in his book "Meter toward the water needs of the government, either Federal or Pro-lates for Water Works," says in industries in his community. The vincial. Some private sanctuaries New York water authorities seem are already in existence, as the m is first installed all the plumb- to think that 80 gallons per capita Peasemarsh Farm in Grey county, ig fixtures in houses are new and is enough water for all the domesare in general reasonably tie, municipal and industrial needs Kingsville, Ont. Governments can ight; people will ordinarily draw of that city. There seems to be do much, and at very little expense by the amounts of water that no good reason why one city should to the public, to assist in the propagation of valuable wild life, wely small in amount. As time record of 70 or 80 gallons per simply by giving proper encouragement to private owners who desire for 1919 was \$33,296,313, as combanges result in leakage from industrial activity shows nges result in leakage from industrial activity show a water ivorous birds on their own prop-Small leaks consumption of three times that erty

The wild life sanctuaries now es-The only limit to the increase tablished here and there are steps Engineer, New York City, asserts the burden cannot be further Dominion parks. But we need many more such sanctuaries and we It does not require 100 gallons need to have them much more

A sanctuary need not always be Ont., and Jack Miner's farm near

nesting places will invariably attract birds. The provision of safety requires protection from enemies, including the gunner and his dog. In this case, the Ontario government assisted the owners by putting up notices, in the autumn birds congregate in a sheltered bay have been put out for smaller birds and as much protection as possible given against birds and beasts of prey

On the now well-known farm of Jack Miner, wayside hospitality has been provided for the wild geese and ducks during their northward and southward migrations. The sagacious Canada goose has come to know the place, and now thousands of these birds stop at Mr. Miner's place every season.

These are examples of the constructive effort in wild life conservation which is becoming increasingly necessary as our country becomes more densely settled year

NATIONAL EXHIBITION

OF FUR-BEARING ANIMALS An exhibition of fur-bearing animals that are being "farmed in Canada will be held in Montreal on the 24th, 25th and 26th of November. This project is an outcome of the conference of fur farmers held in Montreal last winter, under the auspices of the Commission of Conservation. Widespread interest is being shown by fur farmers in different portions of Canada, notably in Prince Edward Island, where the industry is mainly centred. It will be the first national exhibition of its kind to be held in Canada, and it is confidently expected that, at least, it will equal in quality and extent of exhibits the similar exhibition held last year in the United States.

The exhibition is being arranged under the direction of the Com-mission of Conservation with the co-operation and support of the Federal Department of Agriculture and of the Provincial Governments. The fur-producing and marketing interests also are lending their active and enthusiastic support.

There was a decrease in quantity uning constantly make little im- amount. And yet such occurrences At Peasemarsh, it has been high prices of silver, that solve and suitable showed a monetary increase. in the minerals, but, owing to the At Peasemarsh, it has been high prices of silver, that metal