Opossum Invades Oregon; Conditions Favorable William L. Finley, D. Sc. and Ed. F. Averill Write These Wild Life Articles

Pennsylvania Shows How to **Protect Game**

Pennsylvania is always pointed to as the state which has demonstrated what can be done in the way of game and wild life restoration when once the sportsmen and conserva-tionists become sufficiently aroused. The Quaker state may be "boss-rid-den" and politically torn asunder in

den" and politically torn asunder in other respects, but for 40 years the politicians have been compelled by force of public opinion and organized sportsmen to keep their hands off administration of game affairs. The result has been that with its game laws integrated and codified, and the state in possession of over 450,000 acres of game land purchased with proceeds from the sale of hunting licenses which amount to over a million dollars a year, Pennsylvania million dollars a year, Pennsylvania has a game refuge system which is being studied by other states and is recognized as an important phase in national conservation.

GAME INCREASES

The state game commission was created by the legislature in 1895 to protect the diminishing deer. Since then, under their constructive program, a series of laws have been passed, building up a protective system which has resulted in a plentiful Trek of Death

Freeze Tough on Farmer But Boon

To Oregon Birds

The hard freeze the early part of November destroyed crops of many farmers. Grapes and apples that were left hanging turned out a feast for robins and varied

that were left hanging turned out a feast for robins and varied thrushes. While frosted fruit cannot be marketed, it makes little difference to the birds.

Grapes that still hang have a withered look, but they also have a sweet taste. Some have the flavor of wine. Around these vines the robins and thrushes collect and seem to be having hilarious parties. Under such circumstances, one need not be surprised to hear an attempt to put on a spring or summer concert.

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Even the old flicker or woodpecker that digs in the ground for worms like a robin has a taste for winey grapes. An unusual turn of nature made a season of Thanksgiving for the of Thanksgiving for the

Fish Journeys

Their extensive combing of trout streams, it is pointed out, has led to the destruction of much of the water cress and other forms of aquatic vegetation which provided food and streams that the destruction of much of the water cress and other forms of aquatic vegetation which provided food and streams that the way to shad a per cent. Science is to the knots in flexible saplings along the way.

Laws Aplenty, **But Pollution** Goes On Apace

Many fishermen who make a living catching salmon along the Columbia have reached the conclusion they have been "sold down the river."

they have been "sold down the river." Valuable fish resources on which they depend are gradually strangling to death. Fingerling salmon cannot thrive in poisoned waters any better than people can in a gas tank.

A month and a half ago it was reported the pulp mill at St. Helens dumped a stream of brown liquid acid in the Willamette slough that spread a 15-mile blanket of death over the various species of fish that inhabited those waters. Photographs were taken of the Steelhead and Silverside salmon killed from the waste of the mills and samples of the poisonous waters were taken. The ooisonous waters were taken. The state game commission sent a special etter ordering the mill to cease poluting the Willamette river. The fish commission called the mill on the

telephone.

The state game and commercial fish codes are full of legal restrictions to conserve fish. If an angler or a commercial fisherman violates a regulation, he is quickly arrested and fined. The pollution law is plain and clear. Various cities daily violate this law. Every day mills along the shoreline dump poisonous fluids into public waters. There are no arrests, no fines for violators. The pollution law just sleeps in the hands of

New Mammal Resident of Oregon—River Pollution Causes



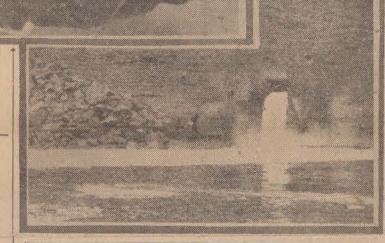
will stand on the window cafeteria and talk with me as it eats. But when Papa Chicadee flies back for a seed and notices me so close to his offspring he gives vent to a terrible fish in summer, but in the winter

offspring he gives vent to a terrible scolding and with wings spread routs the young blade.

Observing the way members of this family eat sunflower seed is really a treat. With a trip-hammer movement of the head the shell is pecked away on one side and the kernel eaten in two bites, Their preference of a perch while opening the seed is the lattice fence as they can cling to the lattice and hold the seed securely in both feet.

Is hin summer, but in the winter the could formerly set five lines, leave them long enough to do a few thores and go back again. Now he is not only limited to two lines, but must remain with them if he is to do any ice fishing at all.

"The feeling in this community, is that the hunter will suffer because of this from now on. For the farmers blame the cities for this ruling and will doubtless post their lands against the hunters more than ever."



Applies Well to Oregon

Saturday Post Article Warning on Game Preservation Timely; Writers Eyed Conditions Here

Two widely known writers, | Cary Ford and Alastair MacBain, visited Oregon and other West-ern states last summer at suggestion of the Saturday Evening Post to write an article on game conditions. This story appears in the present issue, December 7, entitled "No Hunting or Fish-

Eastern streams are pictured as completely dead from the standpoint of producing trout that spawn and propagate naturally. The idea carried out in Connecticut is to raise the trout in hatcheries until they are of legal size, and then dump them into the rivers. The game of the sportsmen is to follow the hatchery truck so as to hook out the fish as soon as they are liberated.

In some places the same method has been used by the game commissions regarding birds.

Pheasants are raised from the hunters' license fees. These half-tame birds are taken out at the opening of the hunting season and released so the hunters may have targets.

Any expert knows it is a waste

of money to liberate trout in a stream poisoned by pollution. Pollution destroys the oxygen in the water and the trout strangle to death.

Warnings in the Post article that apply clearly to Oregon are that game birds, mammals and that game birds, mammals and fish disappear right under our noses as the state builds commercially unless precautions are taken. Reforestation is necessary to hold a permanent water supply in streams. Without forests the soil erodes and the floods ripout the required head. We have the results and the state of the st out the spawning beds. Waste from mills, factories and cities soon kills the streams and they are useless for fish or recrea-

Odd Creature One of Oldest In the World

Oregon may soon have a new mammal resident, for the opossum is on its way. He is a hardy animal, native all through the Southern states, and has proceeded as far North as Eastern Nebraska, Wisconsin and New York. He has been introduced into California and is well settled there, and is satisfied with the sycamore canyons, the sunshine and the abundant fruits and other foods. A few have been reported in Oregon, probably as transients. probably as transients.

It is suspected the opossum also will like our mild climate and plentiful store of food, for he is not choosy but eats almost anything animal or vegetable that is edible. He loves especially the vicinity of water and is. most numerous around swamps or wet lowlands and along bottom lands bordering streams. His den is usually in a hollow tree or in a similar corner where he can hide away in the daytime.

he can hide away in the daytime.

The opossum is one of the oldest mammals on earth and the oldest one in America. Only two others, the porcupine ant-eater, or echidna, and the duckbill, or platypus, began farther back on the evolutionary trail. The echidna and duckbill are partly bird or reptile and partly mammal. Like all mammals, they have hair but they lay eggs and hatch their young as birds do.

The opossum is the American representative of the ancient order of Marsupials, a wonderfully-varied group of mammals now limited to this country and Australasia. Num-

group of mammals now limited to this country and Australasia. Numerous species of opossum are known, all native of America. The Virginia opossum, largest of all the species, has coarse hair, pig-like snout, naked ears and long prehensile tail. Its toes are long, slender and so widely spread that its footprints on the muddy border of a stream or in a dusty trail show every toe distinctly and trail show every toe distinctly and are unlike those of any other small

The opossum has from five to 14 young which, when born, are so immature that they look like small white beans and weigh only three grains. They are pale, frail, pulsing mites, utterly unaware that they are born. So their mother, about the size of a raccoon, sees that they are a raccoon, sees that they are immediately transferred to the nursery, where each one attaches himself to his own milk supply and sleeps and grows while his mother goes about climbing and hunting. hunting.

hunting.

The nursery is a fur-lined pouch on her abdomen, quite like a carpenter's apron for carrying tools. When grown, opossums are slow-moving, stupid animals which seek safety by their retiring, nocturnal habits and by non-resistance when overtaken by an enemy. This last trait gave origin to the term "playing possum." When come upon suddenly, the opossum drops limp and apparently lifeless, with a sickly grin on his face. Despite this, his vitality is extraordinary, making him difficult to kill.

official to kill.

The opossum has always been a favorite game animal in the Southern states and figures largely in the songs and folk-lore of the Negroes. In addition, its remarkable peculiarities have excited so much interest that it has become one of the widely known of American animals.

This Fox Precious

A beautifully marked black fox at the State stock farm at Tobolsk, Russia, is being carefully guarded in the hope that a valuable new va-riety may be bred.

The club has long, curving stripes of white hair over its entire body, a coloring never found before, and animal breeders consider it a rare case of mutation.

Honey Side Issue

Honey bees, Science Service states, are about 50 times as valuable for their work of cross-pollenation in orchards and fields as they are for the honey they make.