Live Beaver Able Ally of Farmer and Stockman William L. Finley, D. Sc. and Ed F. Averill Write These Wild Life Articles

Corvallis P. M. Sees Starlings In Back Yard

Judge Victor P. Moses who, when he is not serving as county judge of Benton county is serving as postmaster for Corvallis in which position he is at present, sends in the first report of the starling being seen that far south in Oregon. It will be recalled these birds were imported from England to Vancouver Island, British Columbia, and that they are Lots of Meal, Oil

Portland.

"Some two weeks past there was a flock of from 10 to a dozen of these birds in my yard. I called Mrs. Moses out of the house to look at them. The white on the wings and the tuffed bill were striking. We were so interested in the strange bird that we visited the Corvallis library to try to find out just what this bird was, but were unsuccessful. This flock took possession of my rear yard, where we have accommodations for birds, such as drinking and baths and food, having quite a flock of robits. possession of my rear yard, where we have accommodations for birds, such as drinking and baths and food, having quite a flock of robins, several thrush, and numerous sparrows and canaries that live with us, and seem to know us. The starlings came in a rush, and fell into the bath, and began picking up the green food and ground bread and oats I had seatered. As soon as I noted the picture in The Journal, page 5, section 2, I knew the bird, and it was recognized by Mrs. Moses.

"I thought this item might be of interest to you, in that none had been noted south of Portland."

On Sunday Hunting

Sunday Hunting

Sunday hunting is entirely or partly banned in 13 counties of Southastern Michigan. In three counties, on hunting at all is allowed. In seven counties that live with us, and seem counties only the owner may permit unday shooting on his land, while in three counties only the owner or man tis permitted to shoot on Sunday. In some of the counties the prohibitory regulations are limited to in The Journal, page 5, section 2, I knew the bird, and it was recognized by Mrs. Moses.

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On Sunday Hunting

Sunday hunting is entirely or partly banned in 13 counties of Southastern Michigan. In three counties on bunting at all is allowed. In seven on the water is about six or eight inches deep. As the beaver swims over this, he kicks the trigger and the trap springs shut, enclosing three counties only the owner or in three counties only the owner or basket. The beavers trapped along the prohibitory regulations are limited to a Western sportsman.

Western sportsman.

Western sportsman.

Hure the beavers alive and the fedabout four feet square and covered with heavy wire. It is held open by springs. This is set in a beaver runtwent for the national forests.

A beaver live-trap is a metal frame about four feet square are counties on the national forests.

A beaver live-trap is a metal frame about four feet square are count

TUCKY HAS BIG BAND Lexington, Ky., Oct. 19.—The University of Kentucky Wildcats are be

New Game Study At O. S. C. Popular

The new course in "Game Management" at Oregon State college is proving so popular that all facilities are taxed to the limit, according to word received from Corvallis. Planned for a possible beginning class of 25, a total of 110 is being cared for, Of this number 70 are freshmen and 40 upper classmen. Two young women are taking the course. Professor R. E. Dimick is at the head of the new departis at the head of the new depart-

British Columbia, and that they are apparently spreading south to Washington and into Oregon.

In writing to this department about his observation, Judge Moses says:
"In yesterday's Journal I read with interest an article on the page containing the wild life articles, the article referring to the 'starting,' and noted that Ira Gabrielson had recently seen one of these birds in Portland.

Dilchard meal is the largest single their hides, the commission compelled any person holding a permit to turn the hides over to the state. The money from such sales was used to purchase large wire traps in which beavers could be captured alive. This situation is due to te California Some is made from cannery refuse. This situation is due to te California A valuable work now is being carried on in the countries of Eastern Constant These live traps in which beavers could be captured alive. The situation is due to te California A valuable work now is being carried on in the countries of Eastern Constant These lives traps in which beavers could be captured alive. The situation is due to te California Constant These lives traps in which beavers could be captured alive. The situation is due to te California Constant The countries of Eastern Constant These lives traps in which beavers could be captured alive. The situation is due to te California Constant These lives traps in which beavers could be captured alive. The situation is due to te California Constant These lives traps in which beavers could be captured to purchase large wire traps in which beavers could be captured to purchase large wire traps in which beavers could be captured alive. The situation of the countries of Eastern These lives traps in which beavers could be captured to purchase large wire traps in which beavers could be captured to purchase large wire traps in which beavers could be captured to purchase large wire traps in which beavers could be captured to purchase large wire traps in which beavers could be captured to purchase large wire traps in which beavers

The federal law requires all duck hunters to purchase a \$1 hunting stamp before they attempt to hunt any waterfowl. This is in addition to the state license. These stamps may be had at any postoffice.

Transplanting Beaver Found Best Solution

This is a typical area for beaver Breeding here, they have spread out and become bothersome to farmers along irrigation ditches. Formerly when beavers were dam-

iging orchards or crops, the state game commission was accustomed to trant permits to kill and reduce the beaver numbers. To guard against beople killing beaver merely to sell

from the south side of the Ochoco hope of being able to circumvent the National forest. This was a good angling stream. Years ago, with a good water supply, this was a valuable area for stock.

The south side of the Ochoco hope of being able to circumvent the hope of be

BLOW TO STOCKMEN

is beavers left to keep up the dams, or sought a court injunction to prethe ponds began to disappear and vent interference by game wardens the water supply lessened each year. Instead of thousands of tons of pasurage for stock, the amount was reduced to a few hundred tons. As the stream dried up, ranchers had to life wells and runny water during gaze duck lake in the Grand given alig wells and pump water during the summer for their stock. Farm bottoms near Brunswick, Mo., whe they have about 50 live decoys. The preek, lacking water, produced noth-

The trappers in one season had gained about \$4000, but this was like killing the goose that laid the golden egg. If you balance this against the yearly loss of approximately \$15,000, you can readily see the value of a beaver is not in its hide. Stockmen and ranchers through Eastern Oregon have learned by experience, and killing beaver is in about the same class as stealing cattle.

The trappers in one season had gained breeds. A master recording out fit was rented and taken to the scene. How to get the ducks to call was a problem. They tried making the birds hungry, then "laying" for them at feeding time.

After two days they managed to record snatches of calls, and hit on the plan of tricking the ducks with the sounds of their own voices.

The "bits" were played, and the ducks began playing up. They answered, and a bit more sound was recorded.

With this as a beginning, Schroer

Work of Resourceful Beavers More Valuable Than Furs





Own Quacks Helped Make Duck Records

Headwaters of Silver creek come graph records of duck calls in the

However, Ding Darling, chief of the biological survey called atten-During the winter of 1911-12, two tion to the provision which prohibit the use of live decoys either directly eaver pelts from the headwaters of ilver creek and its tributaries. With

recorded.

With this as a beginning, Schroer and Stocker soon had the ducks answering their own calls with real "duck-talk" that was truly music to their ears, and the rest was chiefly a matter of selection for the final manufacture of the master record. On the finished product one side is and sage has a lighter and more grayish coat. stool of hens and drakes. It requires minutes to play.

One is the call of a single hen. Th

second mimics a pair of drakes. The of a group of ducks and the fourth may be called a "distance lure," the excited gabble of 50 hens, all chat-

12-Gauge Gun Deemed Best All-Arounder

A few days ago a friend of this department asked the writer for his opinion of the 16-gauge gun. Our reply was that while we were personally rather partial to the 16, undoubtedly the 12-gauge would continue to retain its popularity for nany years to come.

ountry recently answered the ques-ion: "What is the best all-around of these hides. As far as the knowlhotgun?" by saying that in his opin-

Value of Fur Small Part of **Actual Worth**

A beaver can't look at a stream of water without itching to build a dam. He is a born reclamationist because his one idea in life is to store up water. His dams may not store up water. His dams may not look as neat as those put in by reclamation engineers, but he is always on the job to see that his dam holds water. His industry is proverbial. As an animal engineer, his fees for services are nothing. Thereby hangs an important tale for farmers and stockmen.

In Eastern Oregon and other In Eastern Oregon and other places where water is scarce, a beaver in the right place is worth more than some domestic animals. In the valleys or in an irrigated district, he is a nuisance. If he is discovered doing any damage, the first idea some people have it to bill him. This any damage, the first idea some people have is to kill him. This is a mistake. If an old hen flies over the fence and scratches out the garden seeds, she is not killed, but put back in the right place. It is the same with a cow that gets into the corn.

When white people first came to America the beaver was found in great numbers from the Atlantic to the Pacific. The abundance of this animal and the high value of its fur greatly influenced the exploration and early development of North America. It was an aquatic animal covered with coarse hair and a dense, silky under-fur. In frontier days a beaver pelt was a medium of exeaver pelt was a medium of ex-

Too many people still have the im-pression the value of a beaver is in its fur. A beaver hide may be worth \$10 or \$15. In many of the arid areas the West, a live beaver in its proper place is worth \$200 or \$300.

From 1853 to 1877 the Hudson's From 1853 to 1877 the Hudson's Bay company sold 2,965,389 beaverhides in London, the average being 118,615 skins annually. During the last quarter of the 18th century about 150,000 beaver hides were exported each part of the 18th century about 250,000 beaver hides were exported each part of the companies. year by American fur companies. The Hudson's Bay company marketed about 50,000 annually.

It is a matter of history and mathone of the best gun experts in the ematics to figure out the numbers of beaver that have been killed in shotgun?" by saying that in his opinion a 12-gauge, shooting two or more shots, with a 28-inch barrel, modified or full choke, filled the bill.

There is no doubt of the popularity of this type of gun. Using No. 7 to 10 shot if will kill game in the field up to 45 yards. It is heavy enough with No. 4 or 6 shot to handle wild geese.

However, for those who prefer a lighter gun with all the killing power one needs there is a choice of many models of 16 and 20 gauge. We believe the 16 is growing in popularity for it is considerably lighter to carry. In the hands of an expert it is prevented the land from reverting to In the hands of an expert it is prevented the land from reverting to eal for upland game.

The beaver-an aquatic wonder-is being salvaged now instead of being killed by the government. Above on the left is one of the animals after being taken from a frap and on the right the

trap, which catches the beavers along Crooked river. Below is a

typical beaver dam.

Tastes for Artistry Appear to Vary in Birds; Adaptation Theory, However, Obsession With Nature

A strong tendency in nature is toward harmony and adjustment of each outdoor creature to its environment. There is a leaning toward adaptive color. The lichen matches the rocks or trees. The song sparrow that lives more in the damp and wooded areas is darker brown, while the song sparrow that dwells in the sand

The ptarmigan, or snow grouse, is often cited as a good illustration of protective coloration. It is white in winter and gravish or The other contains four separate brown in summer, the color blending with the environment. It is types of call, to be played separately. the same with the weasel and snowshoe rabbit living in the North. The rufous humming bird that

nests in Oregon builds a tiny cup of greenish moss and the gle the outside of her home with some lighter green lichens. One might compare this to the blackchinned humming bird in South-ern California, which commonly nests in the sycamore trees. Her nest is nearly always light brownish or buff in color, be-cause it is made almost entirely from the down on the under side

ered as most remarkable exhibits of protective coloration, yet the question might be raised as to whether the colors are selected to match the blend with the surroundings. Lichens certainly give looks like the branch on which it is placed and might suggest something like an artistic taste in the builder. Nests of the wood peewee and

some of the gnat-catchers and flycatchers are made of moss and fibres and are saddled on limbs with cobwebs. The material is weather worn and inconspicu-ous. It is not a case of birds taking the material that may be close and handy. They hunt for neutral colors. The outside of the cup then is finished off with lichens so it is a remarkably beautiful structure. It all leads one to think that birds are like people; some have little taste and others are artistically in-

Water Dwellers Co-Operate to Cheat Hungry Feline of Rodent Meal—Grabs Tail and Tugs How one beaver, engaged in |

Beavers Thwart Bobcat

a fierce battle with a hungry bobcat, was pulled into the water by another beaver and thus by another beaver and thus saved is told by B. E. Kennedy, formerly editor and publisher of the Baker Herald. Kennedy, who now lives at 5315 N. E. Cleveland street, Portland, was guest of his brother-in-law, William E. Love, at the latter's Wauna lake cabin in November, 1934. Late one afternoon as he was strolling along the shore of Blue lake he heard a commotion on a tiny artificial island constructed by beavers on the top of a tree that had fallen into the lake.

An investigation disclosed the fighting participants. The beaver seemed to be striving desperately to reach the water and the bobcat seemed just as determined to keep him on land. Presently a larger beaver appeared, grasped the fighting clansman by the tail with his fore paws and backed slowly into the lake.

The foiled cat, soon discovering the presence of a human

ing the presence of a human being, made use of the tree trunk bridge to escape into the woods.

Not All Ducks Go South for Cold Weather Stay William L. Finley, D. Sc. and Ed F. Averill Write These Wild Life Articles

Trout Tackle Salmon Catch **Exciting Sport**

Taking Silverside salmon in the Pacific ocean off Depoe Bay with ordinary trout tackle is the thrilling sport enjoyed by several Portland anglers the last two seasons. The "inventor" of this sport is George Tuma, ably assisted and abbetted by Captain Fred West of the police department. Using 6-ounce rods with 28-pound test Japanese gut lines and 12-ounce test leaders, these sportsmen and their friends have found a way of getting real thrills out of ocean fishing.

The rest of the equipment consists of a large reel to provide a spool big enough to carry the few hundred feet of line, necessary when a plunging, fighting salmon takes the bait, and a No. 2 Steelhead hook. The bait used is the side of a frozen herring cut and attached to the hook in such a way that when it is drawn through the water it resembles the wobling of a wounded fish.

HERRING IS BEST according to Tuma, experiments ducted with frozen smelt, shad and chub show they are not as good as the herring. The final item of

as the herring. The final item of equipment is a one-ounce lead weight of wedge shape.

The fishing is carried on six or seven miles offshore, the boat being allowed to drift wither it will with wind and tide. The bait is cast out 20 or 30 feet and allowed to sink. The line is then "stripped" back into the boat—not onto the reel, Seldom do the fish bite as the bait is going down but when it starts back up, and especially when it gets near the surface of the water and within sight

TRAINED FISH JUMP
Bluegills that jump through a hoop to hit a piece of bread tied at the top are the pride of Harry E. Gavitt of Topeka, Kas., who has trained them. The fish will jump eight to ten inches for the bread.

LOOKS LIKE EARLY WINTER ter. He says codfish do not ordinarily appear in the vicinity of Long Branch till December.

Darling's Aide And Finley Eye Oregon Refuges

accompany Appleby on a tour of the Malheur and Klamath dis-tricts. Appleby, according to Dr. Finley, has been of great as-sistance to the wild life conser-vation movement.

Bird Shortage Puzzle; Many Reasons Given

boat—not onto the reel, seldom do the fish bite as the bait is going down but when it starts back up, and especially when it gets near the surface of the water and within sight of the boat, do the big fellows strike. Then the fun begins.

Recently a party of five friends was taken out by the two "inventors," Jim Brooks, Harbormaster Carl Phrehm, Bill Brandes of the lures so rapidly that as many as five were "on" at one time.

California Ink company, Fred Young and Harry Powers. The fish took the lures so rapidly that as many as five were "on" at one time.

MUCH EXCITEMENT

More than 100 were hooked in the course of the day, 22 of which were landed. As Tuma expressed it, there was certainly plenty doing when four or five men each had a fish on his light tackle outfit at the same time. Needless to say there were many mixups which added to the exertment.

When the weather and sea are both in good humor is the most enjoyable time, but some good sport has been had when the waves were rather high. Some days the sharks are attracted by the bait and scatter the salmon. Then the boys get out their heavy trolling equipment, hook a few sharks for Captain West to kill with his gun. According to Purple a hoop to hit a piece of bread tied at the to ope the pride of Harry E.

Accord Day in the first invoiced into necessary to be a subject worthy of scientific investigation.

Parallel of the season. Most of the bridge and across the form the heave and that after the young birds were hatched they were subject worthy and then after a few there are a menace to bird life because of the telephone company and the fellowing of the season. Most of the bridge independence on power company.

Above the bridge and across the river line as series of wires and cables. All the source are the short age of the season. Most of the bridge and caross the river in various places are stretched into keep the short age of the season. Most of the bridge and caross the fiver line.

More than 100 were hooked in the course of the day. 22 of which were th

Utility Wires Death Trap to

The Klamath river drops out of Upper Klamath lake, swirls among the boulders at the edge of the city and passes into the smooth waters of Lake Ewauna. This stretch of water has a drop of about 60 feet and is called Link river because it links the two lakes, and Linkville was the old name for Klamath Falls.

The stretch of water is always in-

J. Clark Salyer, who is in charge of all waterfowl refuges under "Ding" Darling, chief of the biological survey, received a personally directed tour of the Eastern Oregon lakes last week from William L. Finley and Stanley G. Jewett. The latter now is in charge of all refuges in Far Western states.

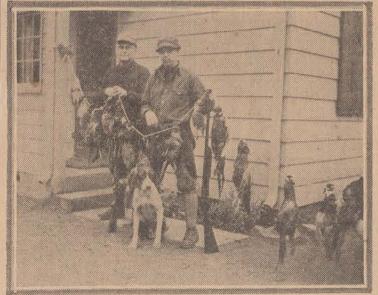
Acting on telegraphic request of Chief Darling, Dr. Finley met the government man at the Malheur-Blitzen refuge. After inspecting the Tule and Upper Klamath lake areas, Salyer went up the coast into Washington, from where he will return to Washington, D. C.

Paul H. Appleby, secretary to Henry Wallace, head of the U. S. department of agriculture, arrived in Portland this afternoon to be met by Dr. Finley and William Rush. The latter is district supervisor for the biological survey. The two Portlanders will accompany Appleby on a tour of the Malheur and Klamath dis-The stretch of water is always inhabited by various species of waterfowl. Near the center of the city,
it is an attraction to persons who
want to watch the flocks of birds
from the bridge and shoreline, During the summer the white pelicans
fish for chubs that swim in big
schools. Many kinds of ducks, grebes
and coots gather along the stream,
not only in summer but in winter.
It is an important feeding and rest-

A few blocks up the right bank the biological survey has built permanent pens with fresh running water for ducks that seem affected by a disease called "western duck sickness," a form of botulism. These sick ducks are brought in from the shallow alkaline areas in different parts of the county. They are unable

Some of the citizens of Klamath alls have suggested that the river nd Lake Ewauna should be set side as a bird sanctuary. Under resent conditions, the river is a postant menace to bird life because

A Good Day in the Field



Sherman Harkson, Danish vice consulate (left), and Walter Grebe and the result of their one day's "chink" shooting near Condon last week.

Banding Aids Government in Checking on Migratory Birds



Scenes taken in Southern Oregon showing activities of the government in keeping tab on the life history of ducks. Upper left is a banding pen and upper right one of the banded bird releasing stations. Below, left, a close-up of a band on a duck's leg and lower right, a menace to ducks, live wires from an electrical station on Link river near Klamath Falls. Many birds are killed as the result of flying into the wires in foggy weather.

Ducks Evade Decoys, Blinds With No Grain

"Blinds located near the resting rice will be out of luck," he says. Few ducks were brought across the

Few ducks were brought across the ferry at Burlington, according to reports reaching the offices of State Game Supervisor Wire and William Rush of the biological survey. "Not more than 50," said Rush.

Most of the ducks taken were "sprigs" and teal. The mallards, which

had been abundant on Sauvies is land for several weeks, were con spicuous by their absence on open ing day. Later in the week they were back in their accustomed haunts. Yett accounts for this by saying the mallards had scattered into the surounding country with the coming of the rain but are coming back now that frosty weather has arrived.

Rush does not think more than 50 ducks have been killed on Sauvies island any day since the season opened. It has not been many years since this was considered a fair days hill for the season opened. day's kill for two men.

Spider Horde Takes to Air Ways Sought Myriad of Insects Balloons Via Shimmering Webs to To Check Kill

Unknown Destination for Winter

Birds are not the only creatures that breed and migrate from the marsh area around Malheur Lake bed. A few days ago I saw what seemed to be a great migration of spiders. The tops of the reeds and bushes were covered with five silvery capts. the current of air swirled across the marsh, a veritable army of small dark gray spiders jumped off the reed tops, and hanging by a single strand, were lifted up. Each spider spun out more and more thread forming a lit-

three of the little travelers in my hand, but they immediately jumped off as if intent on the

little spiders serpentined higher and higher. They were balloon-ing in the breeze to some un-known land. How far they would go or when they would land, no

Of Bird, Beast

mal control has been the subject of discussion for helf a century. There are those who advocate letting nature take its course. There are many staunch advocates of the bounty system. Still others insist the bureau of biological survey has the right system with its salaried hunters and supervised control.

Stebler is to determine what forms the diet of wolves, bobcats, foxes and coyotes in all sections of the state where these animals are found. Conservation officers, refuge keepers and individuals are to assist in the work, which the Michigan game department anticipates will serve as the basis for its future policy.

Government hunters and trappers operating in the range states of the West have examined the stomach contents of many thousands of these animals. It will be interesting to know whether the appetite of a Michigan coyote is any different from that of his Oregon cousin, A tabulation of these results in the Northwest seems to indicate that the coyote principally uses that food which is most abundant and most easily obtained in his territory. bundant and most easily obtained in

Bands Reveal Queer Data on Bird's Flight

birds from one place to another, some method of tagging these trav-elers was necessary so as to know the migration routes from the sumner homes to the winter feeding

The simplest and best method hit on was a little aluminum band like a bracelet that could be fitted loosely around the leg of the bird. Each band had a different number stamped in the metal with the words "Biological Survey, Washington, D. C." Many thousands of waterfowl have een live-trapped and banded of

have been taken off by hunters and returned to the biological survey. By checking the records, many facts have been discovered that lead to the better protection of various species. The common idea is that ducks and geese move north in spring and south in the fall. Banding records show that birds move in all directions specking areas where food is

stions seeking areas where food is abundant. A large number of mallards banded in Montana migrate both west and south. On the other hand, redheads banded in the Bear River marshes of Utah have for some reason a very unusual schedule of travel. They move north and then east across the northern part of the country and spend the winter on the south Atlantic coast.

country and spend the winter on the south Atlantic coast.

Since Malheur Lake reservation is both a breeding area for waterfowl and also a resting and feeding area for flocks traveling north and south, it is a good place to trap and band waterfowl and collect facts relating to the life histories of these birds.

Near the mouth of Blitzen river where it flows into the bed of Malheur lake, the biological survey has a trapping and banding station. This is handled by Philip A. DuMont. These pens are covered with wire, and a runway from the outside leads to the point of a V with a little opening where ducks can enter easily but can't find their way out. Grain is scattered inside the pens and outside the V-shaped entrance. A few ducks inside with plenty to eat soon attract others. From the large enclosure, the birds are driven into a smaller pen where they are caught, branded, the numbers and species recorded and then released.

One might think that when

caught, branded, the numbers an species recorded and then released One might think that when these wild birds are caught and banded the fright would keep them from coming back. Such is not the case because there are many repeats. A good dinner often makes more of an impression than the fear of being

Public Sentiment Factor in Saving Elk Populace William L. Finley, D. Sc. and Ed F. Averill Write These Wild Life Articles

Public Domain Man-Care of Grazing Rights Wild Animals Hard Problem III-Fated Step

posed at the last session of congress was passed but vetoed by President Roosevelt. It seems likely there will be no federal regulation on the public domain until certain management Hole country where food was abund-

lic domain until certain management difficulties can be worked out.

One serious objection to the act is that all these lands were placed in charge of the department of the interior. This necessitates building up an entirely new service in the department to regulate grazing. It means a complete duplication of the work now carried on by the forest service of the department of agriculture.

Hole country where food was abundant. As this area was taken up by settlers and fenced, the elk tackled the farmers' haystacks.

HAD TO BUY HAY

High fences had to be built around each stack, then large numbers of elk starved to death during the winter. To prevent this, the government was compelled to buy hundreds of tons of hay each season and feed the herds.

Experts have discovered that wild animals like elk, when forced to de-

In conserving the outdoor resources of this country, no department of the government has built up a better organization devoted to an important cause than the federal forest service. These men for many years have had to deal with practical outdoor problems where private interests were strong and yet where it was most important to guard the property of the public. The most difficult problem in the nation today is to protect and conserve that which belongs to all the people as a whole against private selfishness. It is almost impossible with resources like the streams, lakes and rivers of the country, which are public property and yet subject to public use. The waterfowl and other game resources and the public domain are typical examples of resources that are hard to conserve.

Wages of rangers and supervisors

the herds.

Experts have discovered that wild animals like elk, when forced to depend on hay during the winter become affected by disease and therefore cannot be handled like domestic stock. In order to restore the natural range of this herd, 12,000 to youned, will have to be purchased by the government. To this area will be added some of the surrounding public domain, which will restore the winter elk range to the conditions of pioneer days.

Inasmuch as settlers and stockmen must be protected outside this proposed federal elk refuge and since the natural winter pasturage on this area is limited, the elk herds.

and the public domain are typical examples of resources that are hard to conserve.

Wages of rangers and supervisors have been low, but men have been attracted by outdoor service. With heart and soul in the work, they have developed courage and intelligency of necessary, by regulated the west to take developed courage and intelligency of necessary, by regulated the west to take developed courage and intelligency of necessary, by regulated the west to take developed courage and intelligency of necessary, by regulated the west to take developed courage and intelligency of necessary, by regulated the west to take developed courage and intelligency of necessary, by regulated the west to take developed courage and intelligency of the soil and plant life and proper regulation to prevent erosing of the soil, Grazing of domestic stock is inseparably linked with federal forest areas, also a constructive plant of game management. The co-operative use of forests by the public for recreational purposes is vital, yet certain regions are essential structum of plant life, erosion of the soil, Grazing of domestic stock is inseparably linked with federal forest areas, also a constructive plant of game management. The co-operative use of forests by the public for recreational purposes is vital, yet certain regions are essential structum of plant life, erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of the soil and plant life and proper regulation to prevent erosion of

Four "birds of paradise" of the reptile world have been secured for the Bronx Zoo from the Amazon regions where they were valued by the Indians for the poison their bril-liant skin concealed.

belong to a genius which has ebony and geese are flying southward ear bodies, with backs beautifully striped lier this year than for many seasons in brilliant colorings. They are avoided by other animals which apparently know instinctively that they are poisonous. Indians used the poison on the tips of their arrows.

Similar accounts come from different parts of Oregon and Washington. There was an unusually heavy flight of these birds over Willamette valley points Tuesday of last week.

142,000,000 acres of public domain big game animals in the West, such which for many years have been as elk and antelope, have been given grazed by stock without federal reg- careful study the last few years by ulation. Over-grazing has greatly re- experts of the forest service and bioduced the carrying capacity for both logical survey. From experience stock and game animals by destroy- gained with the Jackson Hole elk ing natural plant life and in many herd it has been definitely deterplaces has caused a destructive mined that this herd should be limited to about 20,000 animals. These The Taylor grazing act passed by elk have always had an abundant congress was an important step summer range on the mountain toward correction of these evils. However, the act has not yet been put into effect. An amendment pro-

Go South Early

ant skin concealed.

Less than an inch long, the toads states are to the effect that ducks

Oregon's Elk Population Increased by Importations





Disks Just What Beavers Needed

R. D. Shelley of the Sumpter Valley Dredging company, after reading the story of transplanting beaver in the Sunday Journal of October 20, writes that in their dredging operations they are bothered by the beavers damming up the intakes.

He says they put up shining tin discs in the ditch. These were tied by wires and acted as spinners. The beavers took them down to reinforce their dam. They also took a shovel which was left standing by the ditch. Since it takes one man an hour every morning to clean out the intakes, he is in need of some live traps so the beaver can be transplanted up into the national forest.



Freight trains and wagon figured in the replenishing of the elk herds in the state. Above on the left is a herd of elk awaiting in corral to be loaded into box cars at St. Anthony, Idaho, and on the right a calf. Below-Elks being transported in wagons over snow-covered mountain roads of Eastern Oregon.

19 Fine, Fat Ducks With Wings Shorn

Boasting of their prowess in bagging 19 fine fat mallards in one day's shooting on Sauvies Island, two East Side professional men were lording it over their less successful companions last week. Imagine their chagrin when a friend to whom they were exhibiting their kill pointed out that each of the birds had a clipped wing and was therefore

For Real Thinking

The modern man who wishes to o some "real thinking undisturbed" will go fishing if he follows the advice of Dr. George B. Cutten, president of Colgate university. Speaking before the annual convention of the before the annual convention of the New York State division of the Izaak Walton league, recently, Cutten recommended this sport as offering "a real escape from the complexities of modern life," and declared that a few hours spent with reel and rod enables the angler to return to his work refreshed in mind and body.

Eden herd 16
Ukiah herd 325
Whitman national forest: Wittinan national forest:
North fork of John Day herd 197
Powder river 23
Grande Ronde 41
Wallowa national forest:
Chesnimnus herd 95

game commission to get rid of

George Rogers, deputy game George Rogers, deputy game warden, knew the value of the animals and did not want to kill them. After considerable study he hit on a method of getting these little engineers to move on down stream to some other area. The next day he went down

with a shovel and ax and tore out half of the dam. As the beaver is a night animal, George didn't want to sit up all night to

The next morning the warden discovered someone had stolen his shovel and lantern. The dam was all reconstructed. The beavers hadn't caught his idea, or else they had a keen sense of humor. They had used the lantern and shovel, working them into the sticks and mud and making a substantial barrier to

Cats Go to Town As Hunter's Aides

Chinook, Wash., Nov. 2. - "Dot" company with Herbert Kallstrom made an "expedition" into the 'wilds" of Chinook Valley. "Dot" and "Spot"-noses to the ground, Herbert with a gun. Two miles of trail travel, combined with log jumping and bush scratching—and at last, a bird. "Bang!" went the gun. "Dot" and "Spot" were for-ward in a flash, pouncing on the ward in a flash, pouncing of the kill. The usual shaking followed, with gutteral "doggian" sounds. "Dot" and "Spot" are the 6-month-old kittens of the Kallstrom family.

BIRD HUNTER'S EDEN

making a substantial barrier to hold back the water.

The Florida racing commission will require that all dogs raced in that state this winter be registered with the American Kennel club.

Golden Plover's Marathon Ocean Flight Marvel to Naturalists

golden plover is a remarkable annual jaunt. The summer home or place of nesting is from Hudson bay to the Bering sea. Records show that after the summer season the flocks about Hudson bay move across Laborador and then south to Nova Scita. From this point of land they set sail like vikings of old or like adventursome air pilots out across the open sea.

It is a tremenously long ocean flight of over 2000 miles, unmapped as far as we know. The suggestion has been made that the course of the plovers' flight is laid in accordance with the prevailing winds. If the birds traveled across the wind, this would shape their line of direction to the shores of South America. Someone has also suggested that a special sense enables birds to identify air currents or the angle and direction of the sun and light rays.

If a bird were traveling over land, there might be a heriditary memory of routes once traveled, a recognition of landmarks. But out over the expanse of the sea, who can really name the guide posts on which a bird depends? The golden plover, after reach-ing the coast of South America,

migrates on down to Argentina and Northern Patagonia. Return-ing home to the north, the flocks ing home to the north, the flocks have some reason for not traveling across the wide expanse of the Atlantic. They move north through the western part of South America, across the Gulf of Mexico and follow up the Mississippi valley to their nesting grounds in the Arctic.

Herds Seemed Doomed Until Recent Years

in many section of Oregon. Then came a day when they were hunted almost to the point of extermination. Few herds were left 25 or 30 years ago. Closed seasons were established and still their number continued to

decrease.

It seemed as though people who lived where elk ranged had decided the big animals were to be exterminated. Each man seemed to say to himself and to his neighbor, "they are soon going to be all gone. If I do not get out now and get my share it will be too late."

When it looked as though this monarch of the Oregon forests was doomed because he was hunted for teeth and antiers as well as for his meat, something happened. That something was the creation of the Oregon fish and was a something to 1011 and game commission in 1911. Governor Oswald West appointed as members of that first commission men who were genuinely interested in conserving our wild-life resources.

In a few months public sentiment a favor of game law observance was eveloped. The different Elks lodges in favor of game law observance was developed. The different Elks lodges throughout the state were interested and their aid enlisted. In addition to the regular game monies, voluntary subscriptions were made in 1912 to a fund with which a carload of elk was obtained from the government and liberated in Billy Meadows in the Chesnimus forest in Wallowa county. The following year a second carload was brought in. Both these shipments—30 in all—were from the Jackson Hole herd in Wyoming.

The first load was met at St. Anthony, Idaho, by three representatives of the game commission. The animals had previously been corraled and crated in the dead of winter. Transported on sleds over the mountains to St. Anthony, then transferred to the boxcar they were taken to Joseph. Or., where they again were put into crates which had been built onto the sleds and hauled to Billy Meadows.

The publicity given this intro-

The publicity given this intro-duction of new blood to replen-ish the failing herds added great-ly to the sentiment already aroused in Oregon. Hundreds of people gathered at every station along the road as soon as the train crossed over the line into

Well treated and well fed en route,

Well treated and well fed en route, the animals soon lost much of their fear of humans. Long before the end of the journey the young ones were literally eating out of the hands of their attendants.

From that time on there has been a steady and rapid increase in elk, with the possible exception of the herd in the vicinity of Hunters Head in Curry county. More will be said about the exception later.

In the fall of 1933 Oregon hunters enjoyed the first open season in many years. That year a total kill of 579 animals was recorded. In 1934, 747 were killed or approximately one for each five hunters.

In 1933 no record was kept of the kill by herds. In 1934 with close cooperation between the Oregon game commission, state police and national forest officers the open season was handled in a more scientific manner.

A total of 650 hunters killed 125 elk in the Chesnimnus herd in Wallowa county in 1933. No record of the kill from other herds in that year was kept. But in 1934 the kill by herds was:

Umatilla national forest:

Big Meadows herd

Chickadee Gay Companion, All-Year Resident William L. Finley, D. Sc. and Ed F. Averill Write These Wild Life Articles

Instinct Ever True to Style

ONE of the strongest and most interesting traits in bird life is that ability to build nests true to ancestral type. The natural impulse or instinct of animals does not depend on any previous experience of the individual, and it is independent of any instruction. Some scientists claim the instinct of animals is similar to the intellect of man, although much more limited and inferior.

Some birds build elaborate and beautiful nests. A bush-tit, for instance, makes a long, gourd-shaped home with a doorway and a hall down into the pocket or living room. It is tied carefully at the top and woven so that it is strong from the nest of its cousin, technically the chickadee, which digs a little hole in an old stump or finds one already dug, and carries in soft material to line the wooden house. This requires no great skill, but a bush-tit has to be a real bird architect and his inherited ability is marked.

EXACCLY THE SAME

A young bush-tit born this season has had no experience whatever in nest building. When he mates the following season and constructs his home, it is generally a masterpiece made of exactly the same materials and shaped like the nests of his ancestors.

A young robin with no previous experience never makes a nest like a meadowlark or an oriole. His home has a foundation of grass or twigs, then a cap of mud and a lining of finer grasses. A young rotious hummingbird that makes her first migration to the South will repent to the North in the spring and choose a site much like her parents selected and carefully shingle the outside of her cup with green lichens. The little nest is utterly different from one construction from that of other birds. It is even different from one construction from that of other birds. It is even different from one construction from that of other birds. It is even different species of hirds it is a transition, and the various lake bed on the beginning has been that only a part of this various humming bird that makes her first migration to the South will be a subset of the larg

there is a marked nereditary instance that is difficult to explain. One might think that, where we have different species of birds living near each other during the nesting season, associating with each ing season, associating with each pumped the waste water into

Revel Again In Water Refuges

ONE of the strongest and most The drying up of some of the lake

Stinct that is difficult to explain. One might think' that, where we have different species of birds living near each other during the nesting season, associating with each other during the spring and fall migrations, there would be some mistakes in songs, nest building and other habits. But I have never noted such cases. Two species of warbler may be alike in size and quite similar in coloring like the Audubon and myrtle warblers; yet they do not interbreed, and the location and construction of the nests remain individual. The remarkable thing is that they hold so true to racial characteristics and ancestral habits.

190-Acre Quail Farm

The New York state department

GREAT DIKE CONSTRUCTED

Instead of using the whole area as a sump, the reclamation service was et aside as Tule Lake waste water into this smaller sump, which by executive order was set aside as Tule Lake waste water. The reclamation service leased the remainder of the sump area to farmers, who produced as large crops as those on the northern half. Last summer, the water supply would have overflowed the dikes of Tule Lake refuge if it had not been drawn off into the larger sump through the canal that flows out to the south-

The New York state department of conservation maintains a 190-acre quail farm on which 11,000 of these birds were hatched in 1935. Superintendent M. O. Poyner reported the birds have been free of fever this year.

Birch Bark Canoes

Indians of the Golden Lake, Ontario, region still make and sell real birch bark canoes. Science Service reports they are being sold in fairly large quantities but the market at present is limited mostly to museums.

Nest-Building Birds May Yet | Cheerful Chickadees Permanent Residents of Oregon Woods





Even Ickes Against It

Secretary Frowns on Road-building Into Wilderness as Menace to Nation's Wild Life.

Sportsmen and conservation-ists of the Far West are not the only ones alarmed because of the only ones alarmed because of the increased menace to wild life made possible by the building of so many roads into the forests by CCC crews. No less a person than Harold P. Ickes, secretary of the interior, has expressed a note of warning.

We are indebted to John Veon

note of warning.

We are indebted to John Yeon for the following excerpt from an address delivered by Secretary Ickes in February, 1935, to Civilian Conservation Corps workers in state parks.

"I am tremendously interested in parks, particularly in those sections of them which are wilderness. I think we ought to keep as much wilderness area in this country of ours as we can. It is easy to destroy a wilderness; it can be done quickly, but it takes can be done quickly, but it takes nature a long time, even if we let nature alone, to restore for

our children what we have ruthlessly destroyed.
"I am not in favor of building

"I am not in favor of building any more roads in the national parks than we have to build. I am not in favor of doing anything along the line of so-called improvements that we do not have to do. This is an automobile age, but I do not have a great deal of patience with people whose idea of enjoying nature is dashing along a hard road at 50 or 60 miles an hour. I am not willing that our beautiful areas should be opened up to people who are either too old to walk, as I am, or too lazy to walk as a great many young people are who ought to be ashamed of themselves. I do not happen to favor the scarring of a wonderful mountain side so that we can say we have a skyline drive. It sounds poetical, but it may be an atrocity."

Cold weather does not chase these little birds to the Southland. On the left is a mother at the entrance to her nest in an old tree stump. Upper right, seven young ones, two pairs of twins and a set of triplets; lower right, present, past and future of mealtime on top an old stump.

Suggest Feed Fund to Keep Birds in State

There is a vital need for the protection and propagation of migratory birds within the boundaries of the state," declares Representative Charles H. Leach, of Multnomah county in a letter to this depart-ment. He has been chairman of the house committee on game during the last regular and recent special session of the legislature.

Leach proposes to enlist the co-operation of all sportsmen and sportsmen's organizations. His idea is that if the birds can be held in Oregon after the close of the shooting season they will not go south to be shot by California and Mexican hunters, but will remain to propa gate here.

He proposes immediately to start a

movement to solicit voluntary su scriptions to a fund which he wou turn over to some organization of reputable citizens to be expended in the purchase of wheat or other duck the purchase of wheat or other duck food. Then just as soon as the last shot is fired on the afternoon of November 19 he would have the feed placed in all the lakes and other bodies of water over or about which the ducks and geese have been shot. His plan calls for the contribution of at least 50 cents by every person interested. Many would be willing to contribute more subbe willing to contribute more sub-

be fed twice each week for the first 30 days and four times monthly thereafter. He thinks this will not only retain those that have sur-vived the hunting season, but will attract other flocks that might other-wise pass over in migration. Figuring on the basis that every

esting pair of ducks we retain in dregon will bring four new duck ings to maturity it is his declara-ion that we will increase the mi-tratory wild fowl population in Ore-

Doe Protection Hunt Boon

Deer Populace Mounts Apparently in Face of Increased Killing—1200 Bagged This Season

Comparative records of game | the count was more than 600. in any one area and through | This shows that for four years consecutive years are important in determining the up and down trend of game birds, mammals and fish. Lester Moncrief, suand fish. Lester Moncrief, supervisor of the Ochoco National forest, reports that approximately 1200 deer were killed in the past hunting season within the boundaries of Ochoco.

Lyle Miller, storekeeper at Paulina, has for years counted the deer that have been tied on cars that either stopped for gas

cars that either stopped for gas or could be readily seen as they passed in daylight. No attempt has been made to estimate the numbr of deer taken out at night, or no count was made of those killed by local hunters.

In 1931 Miller counted 290 deer; n 1932, 299; in 1933, 287; in 1934, 989. In the season just ended

the number of deer hunters entering this region and the num-ber of deer taken out increased steadily. The season just past was not as favorable for hunting. In the face of the large num-ber of bucks that have been killed in the Ochoco forest, rangers claim the number of deer are increasing. If this is the case, it is definite proof that the protection of the does is the key to deer increase. One buck will take care of anywhere from will take care of anywhere from 10 to 30 does, much the same as cattle are bred on the range. Elimination of predatory animals that kill fawns, and the setting aside a part of the Ochoco forest as a game refuge, also have beined increase the deer have helped increase the deer

No Meanness In Makeup of Tittlemouse'

Many children will recall the nudsery rhyme, "Little Tommy Tittlemouse lives in a little house." It refers to the black-capped chickadee of the titmouse family. I used to watch a chickadee that roosted every night in a little hole in an old apple tree. He was always in bed before dark. If I came up and knocked at the door, he popped out and bobbed around on the limb above, never showing disgust at being disturbed. His was always a cheerful note of welcome, cheerful because there is no show of madness in his makeup. But the instant I turned to go, he shot back into the hole like a bullet. Later when he became better acquainted, he wouldn't come out at all after bedtime.

The chickadee is one of the most cheerful birds of the Oregon woods. The call note, "Chickadee-dee-dee," which gave him his name, is used frequently to keep the flock together. If you whistle in imitation of his high, clear call note, he si sure to come nearer to find out whether you are a member of the family or just a harmless mimic. The chickadee is always inquisitive and friendly. If the thermometer goes down, his spirits go up. He is as blithe and unconcerned as if it were always summer.

As cold weather approaches and the leaves change color, many songsters like the wrens and swallows begin packing to move south. As insects disappear they are quick to note the scarcity of food. The Oregon chickadees, like the juncoes or snow hirds are permanent resistance. or snow birds, are permanent resi-

dents.

Anyone who lives in the suburbs or at the edge of the city and has a garden or is near a patch of woods may have bird friends every day. Along the borders of our garden is a row of sunflowers. When the seeds are ready to harvest, the chickadees keep the trail hot from the sunflowers to the apple trees. They flit down, pull out a seed and hammer it open on a limb. A redbreasted nuthatch is even more expert than the chickadee in handling seeds. During cold weather the chickadees never desert a chunk of beef suet tied firmly to the limb of a tree. This is the bill of fare that keeps them warm and cheery until spring arrives.

The titmouse family includes

The titmouse family includes both chickadees and bushtits. They are tiny in size with rather long tails and sometimes flock with the kinglets. A characteristic of the winter woods of Oregon and Washington is the lisping and calling of a flock of chickadees. Like little acrobats, they cling to the limbs and tips of trees, often hanging upside down looking for insect eggs.

When on the nest the chickadee has an amusing way of trying to righten away intruders. John Bur-oughs tells the following incident: One day a lot of Vassar girls came o visit me and I led them out to the ittle sassafras to see the chickadee's lest. The sitting bird kept her place as head after head, with its nodding as head after head, with its nodding plumes of millinery, appeared above the opening of her chamber and a pair of inquisitive eyes peered down upon her. But I saw she was getting ready to play her little trick to frighten them away. Presently I heard a faint explosion at the bottom of the cavity, when the peeping girl jerked her head quickly back with the exclamation, 'Why, it spit at me*' The trick of this bird on such occasions apparently is to draw such occasions apparently is to draw in its breath until its form percep-tibly swells, and then give forth a quick, explosive sound like an es-caping jet of steam. One involuntarly closes his eyes and jerks back his

RIGHT FROM THE START Poisonous snakes are fully ven-omous practically from the time they leave the egg.