

Hawks and Owls Destroy Many Voracious Rodents.

Ferruginous Roughleg is One of Our Largest and Most Beneficial Birds, as it Feeds on Meadow Mice and Other Mammala.

(Prepared by the United States Depart-ment of Agriculture.)

According to biological authorities of the United States department of agriculture, certain hawks and owls are of value to the farmer in destroying voracious rodents. Notwithstanding the deep-rooted prejudice against these birds, it is the bellef that the good they do overbalances the evil. Hawks and owls may be divided ar-

bitrarily into four classes: 1. Species wholly beneficial.

Those chiefly beneficial. 3. Those in which beneficial and harmful qualities about balance. 4. Harmful species.

It should be stated that several birds of prey belong to one or another class, according to locality. A hawk or owl may be locally injurious because at that place mice, squirrels, insects and other noxious animals are scarce, and consequently the bird is driven to feed on things of more or less value to man, while in other regions where its natural food abounds, it does absolutely no harm. A good example of this kind is the great horned owl.

To the wholly beneficial class, the squirrel hawk or ferruginous roughleg and the four kites-the whitetailed kite, Mississippi kite, swallowtalled kite and everylade kite-belong.

The chiefly beneficial class contains a majority of our hawks and owls, and includes the following kinds: Marsh hawk, Harris hawk, red-tailed hawk, red-shouldered hawk, short-tailed hawk, Swainson hawk, broad-winged bawk, Mexican black hawk, Mexican



Copper Hawk (Chicken Hawk). Upper Figure, Adult Male; Lower Figure, Immature Female,

goshawk, sparrow hawk, Audubon caracara, barn owl, long-eared owl, shortcared owl, great gray owl, harrel owl, on cwl. Acadian

state that waterfowl are captured by this bird, but there is no known instance of its attacking birds. Stomachs of specimens shot in locations teeming with waterfowl contained nothing but the remains of meadow mice The ferruginous roughleg is as fully

beneficial as its relative, though the character of its food differs somewhat. In many parts of the country inhabited by it, meadow mice, which play such an important part in the economy of the other bird, are scarce or wanting, but are replaced by nearly as destructive rodents, the ground squirrels. Upon these this large and



Sharp-Shinned Hawk-The Enemy of Small Birds and Chickens-Upper felt his way over to the Window and Figure, Immature Female: Lower Figure, Adult Male.

fare, and great is the service it performs in keeping their numbers in check. Rabbits, prairie dogs, and occasionally pouched gophers are eaten. The marsh hawk is one of the most

valuable on account of its abundance, wide distribution and habits. It is more or less common throughout the United States, and may be easily recognized by its white rump, slender form and long, narrow wings, as it beats untiringly over the meadows, marshes and prairle lands in search of food. If it were not that occasionally it pounces upon small birds, game and poultry, its place in the first class would be insured, for it is an indefatigable mouser. Rodents, such as meadow mice, rabbits, arboreal squirrols and ground squirrels, are its favorite quarry. In parts of the West the last-named affimals form its chief subsistence. Lizards, snakes, frogs

and hirds also are taken. Abundant proof is at hand to show that the red-tailed hawk greatly prefers the smaller mammals, reptiles and batrachians, taking little else when these can be obtained in sufficient numbers. If hard pressed by hunger, however, it will eat any form of life and will not reject even offal and carrion; dead crows from about the roosts, poultry which has been thrown on the compost heap, and flesh from the carcasses of goats, sheep, and the larger domesticated animals are eaten at such times.

The red-shouldered hawk, or, as it is sometimes incorrectly called, the "hen hawk," is common, and very val-



The New Fable of the Loncsome Ride Club to compare Hang-Overs and find on the Sprinkler.

One pleasant morning the Chief of Our Hero appeared just as the Boy the Society for Promoting the Importation of Scotch Merchandisc awoke after a Balloon Voyage which began 6 Feet below Sea Level in a Rathskel-Save Himself. ler and finished 2,000 feet above the Altitude recorded by Lincoln Beach-

ey, the Man-Bird. When he Came To he discovered that the Pillow had climbed over on top of him and was trying to work the Half-Nelson, while a large Pile-Driver, of the kind used along the Water Front, was beating a rhythmic-

al Tattoo on his tender Bean. He had a Temperature of 102 and his Ears were hanging down. Also, during the Period of Coma some one had extracted the Eyes and substituted two hot Door-Knobs. Furthermore, his Dining Room Floor was covered with a Plush Rug.

After he had decanted a miniature Niagara on to the smoking Coppers and removed his Collar and cautiously picked up from the Floor his Stick-Pin and the Watch and the Remnant

of the Check cashed at 5 p. m., he denounced in unmeasured Terms an English Sparrow that had perched on

the Sill, merely to annoy him.

In a little while he remembered that he was a Resident of the Planet known as Earth. Soon after that his Name came back to him and then he recalled his Boyhood and the Fact that when he passed the Parsonage the Presbyterian Minister would ask him to pick some of the Lilacs and Snowballs and take them home to his Sister Alice

From that Point he groped through his Life History up to the Twilight on which the Regulars had arranged a Send-Off for Old Buck, who was

out what had happened after the Roof fell in.

was getting ready to throw a Life Line. He was greeted with a ribald Shout and told to come running and

The Moment had arrived for him to be a Man. Surrounded by Ice and you have great modern governmental Squirters and Mixing Spoons and buildings, substantial, artistic, clean Orange Peel and Jiggers and Jaggers and well-kept, that would do any na- tree throws its shade and in the he drew himself together and made tion proud to possess and that serve to shadow stands the tomb of the founder the Announcement.

For a Moment they were stunned by the Impact and then every Son of best of the province. On the other Peoria leaned back and let out a hand, in the native quarter, you have through the bazaar, Yowl. To think that a real up-to-date bazaars and kavanas; you meet with Fellow would pull any of that Old latticed harem-balconies and old, that of a mosque, the walls sloping up A puny Mortal trying to get a Stuff! Toe-Hold on the Demon!

They told him to forget it and quit his Spoofing and remove his Overshoes and ease a couple of Gills into It is a strange irony of fate that in elegant rug graces the floor and in the his Reservoir and try to be a Human Being, however painful the Effort.

He came back with a few Gems from the Family Medicine Book about the Effect of the Accursed Stuff on various Organs. He did not propose cut the Varnish off of Wood-Work. The Hard Stuff had passed out of his Life.

The Cackles died away and were succeeded by looks of Blank Dismay. They saw that one whom they had long regarded as a reliable benchworking Union Lush had turned in his Card and deliberately made himself an Outcast.

They saw him order Vichy and go to it as if it were a Beverage and then they tore up his Credentials and burned his Photograph and told him to go out into the snowy Streets and find a new Home.

He sat back and pulled the Grim Smile which Savonarola wore when they piled the Fagots around him. He was a Martyr and proud of his Job. By the same Token, there is no Brand of Rectitude that grades so pure and spotless as that exhibited by the disinfected Dove who has not touched a Drop for nearly 24 hours.

They saw him go home with a Magazine under his Arm and then they sat around until all Hours, lap ping it up and progging his Finish. They said he never would last a Week and when he Feil it would be Some Splash.

They began to issue daily Bulletins and watched the Case with much Anxiety because they really liked the Old Scout in spite of his Eccentricities. When they learned, at the End of a Week, that he had played Buttermilk to a Standstill all up and down the Quick Lunch Circuit and was at his Desk every Morning with his Face clean and a Flower in his Coat, they called a Meeting of the Vigilantes and decided that the Joks had been car-



HERE is probably no other city | in Europe that presents such is the Mosque of Husruf Bey. One decided contrasts as Sarajevo, the Bosnian capital, in which court yard of stone, where a fountain Archduke Francis Ferdinand

was assassinated. On the one hand tell every comer how Austria kept her of the mosque. Good shoppers are a word to govern Bosnia for the very pious folk, and they will drop in here

walled-in court yards and fall afoul of to the dome, with countless niches, deep-hooded women and fezzed and decorated with geometrical designs in turbaned Mussulmen that take you blue and white, for the Koran forbids back to the days of the Arabian Nights. the picturing of things animate. An this modern, yet archaic, city the heir center of this stands the sarconhagus to the Austrian throne should meet his itself, hewn of marble and covered nemesis.

But even aside from this recent play of history Sarajevo is of interest. In this city of curious contradictories to feed himself anything that would there exists the queerest department close by, the turban indicating the store in the world. Not alone is this so because every man, woman and child in the place is compelled to buy of the great institution, but also for the fact that the most modern systems are intertwined with those of centuries passed. This great department store.

which is known as the grand bazaar. is run on the system of individual shopkeepers housed together in one great building. There are as many as a dozen chops of certain sorts and competition has been overcome by the strongest kind of unlons-the trade guild-which sets the price of everything and also the minimum to which bartering will bring it. As a result, in

Sarajevo there are no professional choppers; for when a Bosnian has stated a price he will not and cannot budge.

The Great Bazaar.

The great bazaar of Sarajevo consists of an intricate labyrinth of lanes, used. This powder is then placed in

ity, where the poor receive their coffee free. Others, however, take their beverage in the regular cafes. In the smaller of these the coffee beans are placed in a tiny brass mill, of the thickness of a pump handle, the lower half of which unscrews to emit the pulverized grain, while in the larger establishments the beans are pounded in a stone mortar, with great iron pestles, and then worked through a circular sieve, that only the finest may be

In the very heart of the great baza

passes through a great wall into a

plays that one may wash in for the

prayers or draw free drinking water,

for elsewhere in Bosnia water is not

free, but is sold. Beyond the fountain a

to offer prayer, while on their way

over with a green canopy, heavily

worked in gold. At one end of the

tomb immense candles stand, illumi-

nating a turban of stone on a pedestal

grave of a man. At one side of the

tomb, a little settee is placed, that the

weary shopper may slt in prayer, rest-

ing his eyes on a great glass case on

the opposite wall, in which a green

The Coffee Houses.

Among the bazaars are the kavanas,

or Turkish cafe houses. For the poor,

in the center of the bazaar, there has

been opened a Wakf, a Turkish char-

prayer-cloth from Mecca now hangs,

The interior is almost identical with

some of them arcaded, so that but a brass pitchers, upon which hot water





handsome hawk wages continuous war-

owl, screech owl, flammulated screech owl, snowy owl, hawk owl, burrowing owl, pygmy owl, ferruginous pygmy owl and elf owl.

The class in which the harmful and beneficial qualities balance includes the golden eagle, bald eagle, pigeon hawk, Richardson hawk, Aplomado falcon, prairie falcon and great horned owl.

The harmful class comprises the syrfalcons, duck hawk, sharp-shinned hawk, Cooper hawk and goshawk.

The rough-logged hawk and the ferruginous roughleg, or squirrel hawk, as it is sometimes called on account of its fondness for ground squarrels, so destructive in the West, are among our largest and most beneficial hawks The former breeds wholly north of the United States, migrating south in September and October and remaining until the following April. The latter breeds extensively through the great plains region. The winter range of the roughleg is determined more by the fall of snow than by the intensity of cold, the main body advancing and retreating as the barrier of snow melts or accumulates. Meadow mice and lemmings form the staple food of this bird. Lemmings do not reach our territory, except in Alaska, but in the north of Europe they occasionally form into vast, migrating, devastating hordes, which carry destruction to crops in the country invaded. The vole, or meadow mouse, is common in many parts of this country, and east of the Mississippi river, without doubt is the most destructive mammal to agriculture. It destroys meadows by tunneling under them and eating the roots of grass. This mouse also destroys grain and various kinds of vegetables, especially tubers, but probably does even more damage by girdling young fruit trees.

The roughleg is one of man's most important alles against meadow mice. feeding on little else during its six months' sojourn in the United States. It thus renders important service in scking the ravages of these small but formidable pests. The roughleg is somewhat crepuscular in habits, being on the alert during twilight and early dawn, when small mammals are most active. Other mice, rabbits and dottes, etc.), and fourteen to twenty ound squirrels are eaten occasionally, and some of the older writers Minorcas, etc.).

uable to the farmer. It is more nearly omnivorous than most of our birds of prey, and is known to feed on mice. birds, snakes, frogs, fish, grasshoppers

Great Horned Owl.

centipedes, spiders, crawfish, earth-

worms, and snails. About 90 per cent

of its food consists of injurious mam-

mals and insects, and hardly 11/2 per

Danger In Mixing Salt.

There is risk in mixing salt in dry

mash, as it is impossible to distribute

it evenly. It is injurious to a fowl to

eat too much of it. The only safe way

is to give it in wet mash. The proper

way of mixing is to use about a table

spoonful to a gallon of water. After

allowing the salt to dissolve use the

Good Chicken Matings.

of the Asiatic class (Brahmas, Coch-

ins, etc.); ten to fourteen of the Amer

tean class (Plymouth Rocks, Wyan

of the Mediterranean class (Leghorns,

Good matings are six to ten hens

water for mixing the mash.

cent of poultry and game,



They Saw Him Go Home With a Magazine Under His Arm.

pulling out for Seattle. In order to help Buck to remember them as True Friends, they had covertly planned to get him Stewed to the Eye-Balls and then ship him on to his new Home, spread out in Stateroom B, with longstemmed Roses laid across the Remains. This form of homicidal Galety is perpetrated under the name of American Hospitality.

Our Hero remembered the polite Getaway on the Low Speed with everybody Respectable, after which the Fountains started to gush and Waiters began to come up out of the Ground bearing Fairy Gifts of a Liquid Variety. Somewhat later in the Evening he found himself balanced on one Toe on a swiftly-moving Cloud, announcing to the Stars of

Night that he was a True Sport. In other words, he realized, as he sat humped over in the Morris Chair, holding on to the Head, lest it should fall off and roll across the Floor, that he had been Snooted for Fair, Plastered, Ossified, Benzoated, Piped, Pickled, Spifflicated, Corned, Raddled, Obfuscated, Soused and Ory-Eyed.

Six hours before, he had stood on Table and declared for the Protherhood of Man and now he craved but one Companion and that was old Colonel R. E. Morse.

Standing over in the Sunlight by sight. he Window, where he could see the innocent Shop-Girls going blithely to their \$6 a week, he lifted the trembling Right Mitt clear above his Head and then and there declared himself be on the Cart until the great Celestial Bodies should skid in their Orbits and the Globe itself dissolve into Vapor.

Just as he pronounced the Words. Nev-ER A-gen", he felt a great Flood of worthy Resolutions arising in his new Moral Nature. He would buy a Winchester Automatic and devote the gallon. This is nearly as strong as remainder of his wasted Life to shootng up Barkeeps. And when he died, whole Estate would go to the W. C. T. U.

That afternoon the Survivors of the alum in two gallons of water is often panions here. Midnight Massacre got together at a used

ried far enough

In the meantime, Our Hero had learned two new kinds of Solitaire and began to call around for a Dish of Tea with some distant Female Relatives who had long supposed him Dead. Along about the Cocktail Hour he would find himself sitting first in one Chair and then in another but he Cashed big every Morning when he awoke and found that Henry Katzenjammer was not sitting on the Foot Board making Faces at him

Only, sometimes he would stop on Corner and look all about him and up at the Buildings and wonder if the Town had always been as Quiet as at Present.

After he had stuck for a Fortnight the desperate Envoys from the Indian Camp went after him for Keeps. They held it in front of him and splashed it on his Clothes and begged him to step throwing a deceptive gloom on the aboard with them and go right up to the 18th Floor.

Probably if they had let him alone he would have come sneaking back into the Reservation to watch the red Whirligigs and pick a few of those Night-Blooming Martinis but when they tried to Stampede him, the old New England Stock asserted itself, so he substituted Rivets for Straps.

He is now the honored Associate of those who play Cribbage in their own Homes and ent Apples before turning in. But if you want to get a Line on his Real Character just ask the Wet Brothers. They will tell you that he wasn't there with the Strength of Character so he simply sank out of

MORAL: The Way of the Ex Transgressor is Hard.

Water-Proofing Concrete.

The United States engineers have long used the following mixture in water-proofing cement: One part cement, two parts sand, three-quarters pounds of dry powdered alum to each cubic foot of sand. Mix dry and add water in which has been dissolved three-quarters pound of scap to each ordinary cement, and is quite imper vious to water besides preventing efflorescence. For a wash, a mixture of one pound of lye and two pounds STREET SCENE IN SARAJEV?

feeble light falls on the cobbled floor; | is played, until the mass is practically others open to the beating sun, and all dissolved, when a small flagon of the lined with open, wooden booths, behind deep, dark liquor is presented the which are the storehouses for the guest.

wares. The houses themselves are two stories high, built square and coated over with plaster externally. The second story is wider than the first, thus

the shopkeepers' harem live in the through which they peer down at the ings protect it from thieves. In one section of the great bazaar the houses which practically form one immense

dwelling, have the first floor of crude sun-dried brick, while in the center facade of the upper, projecting story there is a little latticed balcony to which ascend the noise and the smells and, often, the dust of the little irreguwalls are yellow, with a striping of blue about the windows and doors.

Some of the booths are clean and or derly. Others are a mass of filth. In

silver fingon of cold water smoking the eternal cigarette. Folks wander by, but he does not seem to care to attract their attention. None of these bazaars does a land-office business, and yet they all exist.

One sees the wares at their best on Wednesday, when the peasants come to town and there is more likelihood beans have mingled thoroughly. of sales. In this great department store it may be said that everything under the Balkan sun is for sale. Shops of every sort are together, but things which we should sell in one class of chafing-dish fire becomes too greatstores will be found with strange com- and I have yet to see a chafing dish.

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These are just a few vignettes of the common life of Sarajevo. Military reviews, with cohorts of proud Austrian soldiery; simple peasant fetes, with their Kola dances on some green, shopgoods in the shop. Often the belles of ping among the stores, the peer of any in Europe to have one's purchases upper story and there are lattices brought home by muleteer, as were wares in the holy land in the days of shopkeepers. In other sections the loft the Savior, medley of color; the noises is also the storeroom and heavy grat- of the criers, the quiet of the residential streets and harems-all these go to make of the Bosnian capital one of the unique spots of all the near East.

For "Summer Bachelors."

An ingenious man in Washington whose wife has gone to the country, is responsible for the inauguration of a new dish which is not only a novelty lar street. In some sections the house to the palate, but which can be prepared at stag parties without being spoiled before it is ready to serve. It. a modification of the old Mexican frijole, which is the southern equivaall of them, however, the Turk sits lent-in a gaudy sense-of the North cross-legged in a corner beside a tall, American baked bean. It can be prepared in a chafing dish.

His recipe is as follows:

A green pepper is cut into small bits, a half-pound of American cream cheese and a can of ordinary kidney beans are put in the chafing dish over a slow fire and allowed to cook until the cheese and the extract from the

"It is impossible," said this "summer bachelor," to go wrong on this dish. It is impossible to burn the mgredients unless the heat from the when the fire got too hot."