FOREST AND STREAM.

unrivalled anywhere in New England, and I never pass one of these deserted farms without seeing its possibili-ties and without my heart reaching after puny boys and girls in pent-up city quarters who would thrive in body and mind under the summer skies in the liberty, fresh-ness and beauty of these surroundings. MRS. ANNIE A. PRESTON.

MAPLE COBNER, Willington, Conn.

Hatunal History.

THE EUROPEAN BISON. BY R WALDEEK,

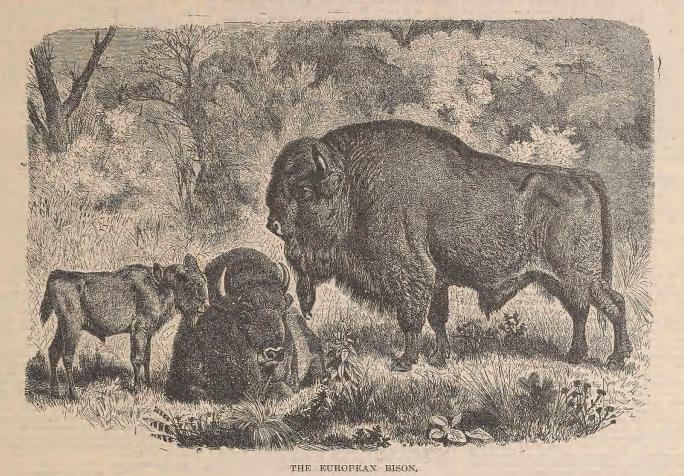
THE animal most nearly allied to the American buf-falo is the European bison, loosely called the old German aurochs, and to day termed in the German and Russian languages, wisent, an animal which about a

mous size, and the whole forest still presents the same aspect that it did more than a thousand years ago. The gigantic trees are never felled by man. They are overthrown only by heavy storms, and rot where they fall, giving room, light and food to the younger trees growing up beneath them, which thus seem to rejoice in the death of their fellows. Here and there among the forest are found wide meadows or parks, where grow different kinds of grass and herbs mingled with heath and underwood. These plants furnish ample food for the gigantic inhabitants of the woods. These open spaces are usually the result of fires which often take place. Only here and in the Caucasus in Asia is the bison to be found to-day. Over all the rest of the globe he has be-come extinct, and had not the Emperors of Russia care-fully protected him for centuries, he would to-day be no longer ranked among the existing animals of Europe. Many years ago it was different. Then the bison was scattered over the greater part of Europe and Asia. In the palmy days of ancient Greece, it was found in Paonia and in what is now called Bulgaria, and everywhere in

not so much so as in your buffalo. The horns are placed at the side of the head and grow at first horizon-tally outward, then turning upward with the points slightly turned in. They are a little longer than the horns of your buffalo. The body is covered with a thick coat of light brown curled hair; the head, feet and shoulders be-ing dark brown and the tassel at the end of the tail black. The hair on the head is very long and straight, and the beard reaches nearly to the ground, and continues under the throat down to the breast. The bison cow is much smaller than the bull. Her color is the same, but the horns are shorter and lighter and the mane is less developed. A new born calf is much lighter in color.

in color

in color. In the year 1829 a count of the bison in the Bialowitza forests gave 711 head, of which 633 were old ones and the remainder calves. In the following year, 1830, the number increased to 723, but in the next year, 1831, it was reduced to 657. The laws for its protection were more severely enforced from this on, and in consequence the number of bison in-



<text><text><text><text><text>

<text><text><text><text><text>

creased until in 1857 there were 1883 head. Soon after this, during a revolt, many bison were killed by the people, and the last census of this animal, held in 1880, gave only about 550 bison, including cows and calves. [TO BE CONTINUED.]

VACATION IN WEST FLORIDA.

A VACATION IN WEST FLORIDA. THE evening train from the North ran in to Tampa, the brightest, most energetic, prosperous looking town we had seen in Florida. In the fading western light the Moorish towers of the great Tampa Bay Hotel showed dimly, the electric lamps shone on clean looking brick blocks, which bore the unmistakable stamp of a boom-ing city. Over the Hillsborough River, out on the tongue of land between the two great arms of the bay, and so on in a long low trestle-work, of which we were made aware in the darkness by the peculiar rumble of the train and the phosphorescent gleam of quiet waves below and around us. A few minutes more and we were at Port Tampa and were ushered into "The Inn." The aforesaid we consisted of my companion, a young and entusiastic conchologist and all around naturalist, and myself; and our object in visiting the west coast of the State was to spend the holidays in making natural history collections. Next morning a strange sight greeted the eye. We

the State was to spend the holidays in making natural history collections. Next morning a strange sight greeted the eye. We were in a city built wholly on piles, a city which vaguely suggested Venice, the dwellings in Lake Maracaybo, or of the prehistoric tribes of Switzerland. Railway depot, stores, hotels, dwellings, and all the various buildings and appurtenances of a town were elevated on piling 5ft, above the clear water, through which we saw fishes, crabs and gleaming shells, the whole at least three-quar-ters of a mile from the shore. Our hotel was a gem in its way, built and finished wholly of Southern pine, one of the most beautiful woods for decorative purposes in the world, when properly selected and varnished. It seems strange that the people of the United States have so generally neglected it; the only reason perhaps being its commonness and cheapness. When the long-leaved southern pine shall have become well nigh extinct it will no doubt be properly appreci-ated.

ated.

ated. Around us lay the low shores of Tampa Bay, to the south and west the Gulf of Mexico. Our destination was the Manatee River, which, by one of those strange con-tradictions in geographical nomenclature, is not a river at all, but an arm of Tampa Bay, a beautiful sheet of water a mile or more in width and some eight or ten in

100 Ingr. The real stream emptying into it is only an in-inform affine. The various small towns and landings in and around the heaving stream of the stream of the margaret, a pretty fide-wheel steamer which makes trips from Tampa to have think it is Ruskin who has said that three ele-ments are necessary to form a perfect landscape, diversity first of these elements of beauty is totally lacking throughout this region. No country in the world, except the stores rise nowhere more than a few feet above high the shores rise nowhere more than a few feet above high the shores rise nowhere more than a few feet above high the shores rise nowhere more than a few feet above high the shore is invariably denominated by the part is ing abruptly to a slightly greater elevation than the rest of the shore is invariably denominated by the prime Hidge, and those of various mountains are applied what rising abruptly to a slightly greater strenger. The add for the most part consists of uninterrupted open pind of the shore is invariably denominated by the prime Hidge, and those of various mountains are applied what rest of the shore is invariably denominated on the straight, branchlees, redish-brown trunks, sur-ment of heaving abruptly to a slight elevations in the interior the straight, branchlees, redish-brown trunks, sur-ment of heaving abruptly for each of bouthern pine. The shore of heaving a bruptly for each decide of buillant stream terming with life glances brilliantly, and in the dis-prime with life glances brilliantly, and in the dis-prime with life glances brilliantly, and in the dis-terming with life glances brilliantly and on the dis-prime with life glances brilliantly and on the dis-prime with life glances brilliantly and on the dis-terming with life glances brilliantly and on the dis-prime display through the pine needles, and over and prime and around all is poured a flood of brilliant strenges terming with life glances brilliantly and on the dis-prime display through

out carrying away with him delightful memories of this indescribable beanty, or without feeling a desire to see it again. We watched the pelicans, the only birds we saw in any considerable numbers, birds that my friend declared were the saddest he had ever seen. There certainly is something lugubrious about these droll creatures that ply their avocation as fishermen with such untiring industry. They look mournful enough, and yet in their apparent sadness there is something irre-sistibly ridiculous and which excites in one the same de-sire to laugh that a man would who falls on a slippery pavement. But to one who, like the writer, has been familiar in years gone by with this country, there is a great change noticeable in the greatly diminished amount of bird, reptile and fish life along these shores. Ten or twelve years ago the waters literally awarmed with fish, of which about one hundrad edible species inhabited the west coast. I have seen schools of mullet miles in length along these keyes, among which sharks held high carni-val, and the incessant sound of these fish as they struck the water after making the characteristic leap was often so deafening that one could not hear conversation, and well authenficated stories are told of these same mullet swamping and sinking boats which happened among them. Yet during our cruise of ten days I did not see a man and cook were experts with the cast net they tried in vain to capture enough for a mess. There are, per-haps, two reasons for this rapid diminution of one of the most valuable food products of the country : The bottom of the sea in this vicinity is as flat as the dry land, and usually quite shallow. Several times each winter severe wind storms set in from the north which are locally called "northers." When unusually strong these storms aftive the water out of the bays along the west coast and into the Gulf of Mexico, often laying bare tens of thous-ands of acres of muddy or sandy bottom. Occasionally at such times the mercury falls below the freezing poin

the wind, and are often landed in ricks on the lee shores. If the tide rises soon and the weather moderates most of them are restored to life, but if it continues to blow cold they perish. In the winter of 1886 there occurred a norther of extra-ordinary severity; snow fell on the Manatee for twenty-four hours, and ice an inch in thickness was formed. As a result millions of fish were drifted ashore and destroyed, and when the tide came in at last the water was so filled in many places with the dead floating about that boats could neither be pulled or sailed through them. They lay decaying in countless numbers along the shores, food for birds of prey, and creating an intolerable stench for miles inland. The fishermen made a fortune gathering them up and shipping them as iced fish as long as they remained good, but after this their avocation as fishermen was well nigh pore. Since that time, I am told, fish have never been so abundant as before. But the truth must be told. There can be no doubt that they have been ruth-lessly slaughtered by fishermen. I an informed that companies formed for the purpose of making fish guano have captured the mullet in untold numbers in their spines, and used them with the sharks and other fish for their preparations. Catching mullet for roe is quite a business in its season, and many fishermen instead of re-turning those which are not gravid to the water, allow them to die on shore. The killing of the goose that lays the golden egg has again brought disaster, for many of these common fish seem well nigh extinct. Mr. Ridgwar, the latter are practically extinct, and and the former are only seen on rare occasions. On collecting trip was a perfect success in every way. Christmas on the Manatee was uncomfortably warm, and in yards and gardens roses, Chinese hibiscus, the gorgeous purple-tracted Bourgainvillea, and the graat flamingo and carolino paroquets were often seen. Now, on account of seanlet ibis^{*} were abundant, as well as white egrets an

"Mr. Ridgway, of the National Museum, informs me that he bas never been able to obtain this kird from Florida, though it is not rare in tropical Aurerica and has been reported from Louisiana, etc. Ten or fifteen reers are a bird called in Florida the pink purlew and answering in sponsarand to the scarlet bis was not at all rare about the bays and keys of the west cost.

FOREST AND STREAM. Bring low tides we searched the shores and sandy much these for shells, crabs and other marine life, and when these were covered we got under way and tept the dredge constantly at work. This implement, which consists of a double-bladed iron frame attached to a bag of twin-hetting, is dragged along the bottom by means of a roop attached to it, the boat being brought up into the wind, or the area of the an interesting and exciting moment much as is the landing of a fishing seine. Mollusks, sacidans, sponges, bryzozo, crais, shring, crabs, star-fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and dollars and sea urchins, with curious bottom fish, and many other quaint and, startling forms of sea indice are among the possibilities of the hall. These ani-mating the possibilities of the hall. These ani-mating the possibilities of the hall. These ani-mating the steered and absorbed that he does nor-bottom the steered and absorbed that he does nor-bottom the steered herself. For a quarter of an hour there is a starge strugget, all hands on board against a single bar dolog and a basel the othe hell and for a few minutes he was the steered herself. For a quarter of an hour there and after another severe fight of a few minutes he was a fatter another severe fight of a few minutes he was a fatter another severe fight of a few minutes he was a fatter another severe fight of a few minutes he was a fatter and not the marine fift. Mulbars, crusts what fitter another severe fight of a few minutes he was a fatter another severe fight of a few minutes he was a fatter another severe fight of a few minutes he was a fatter another sev

WASHINGTON, D. C., Jan. 21.

WASHINGTON, D. C., Jan. 21. BIRDS OF BRIDGEPORT, CONN. —Mr. C. K. Averill, Jr., recently prepared for the Bridgeport Scientific Society a brief annotated list of the birds found within ten miles of that city. The list is based on recent observations, but the earlier papers on the birds of Connecticut, that by J. H. Linsley (1849) and of Dr. C. Hart Merriam (1887) have been consulted and a number of species introduced on their authority. Credit is given to several local ob-servers for records received from them, but the author is responsible for most of the species noted. The list num-bers 246 species and contains some interesting informa-tion, though we feel inclined to complain of the brevity of the annotations. The recent breeding of Gallinula galeata near Stratford is noteworthy. The nomenclature used is that of the A. O. U. list, but the proofs have been carelessly read. carelessly read

THE LINNÆAN SOCIETY OF NEW YORK.—Regular meet-ings of the society will be held at 8 P. M. at the Ameri-can Museum of Natural History, Eighth avenue and Seventy-seventh street, on the 3d and 17th of February. No paper has been announced as yet for Feb. 3. On Feb. 17 a paper by Mr. B. Hicks Dutcher, "A Summer's Col-lecting in Southern California."—JONATHAN DWIGHT, JR., Sacretary Secretary.

Words of Appreciation.

Words of Appreciation. It is probable there is no weekly paper that comes to Maine which enjoys the wide popularity possessed by the FOREST AND STREAM. Other papers have a larger circulation than this, but none is treasured more highly or quoted so oftee. It is read by country farmers, by village and city sportsmen, by backwoods lumbermen and trappers and guides, as well as business and pro-fessional men all over the State. The rough hunter reads it for tales of stirring adventures in the woods, the college student and summer vacationist read it for facts about canoeing and yacht-ing; the crack shot scans its pages for target records, the dog fancier studies it for ideas about breeding and training and prize winning, and the modest naturalist patiently pruses the paper ing; the crack shot scans its pages for target records, the dog fancier studies it for ideas about breeding and training and prize whnning, and the modest naturalist patiently peruses the paper for new facts about the habits of animals. The editor of this paper has sat in a lumber camp forty miles from the nearest habitation and heard the foreman of the erew read FOREST AND STREAM to over half a hundred delighted lumbermen, many of whom did not know one letter of the alphabet from the other; yet all were pleased and taught new facts by the paper that had come to them over snow-olad bills and icy ponds. Guides carry copies of it about in their pockets for mouths, and when the contents have been learned by heart it is turned over to some other guide or trapper as a precious keepsake. In short, FOREST AND STREAM preaches the gospel of the forest to the woodsmen of Maine better than any other paper published. Last week with the first number of its thirty-eighth volume FOREST AND STREAM came out in enlarged thirty-two paged quarto form, with many of its old features amplified and several new ones added. It is the same old FOREST AND STREAM, only larger and better and more worthy of patronage. Under its present form and management it is an ear perfect in its line as it is pos-sible for a paper to be. Its opinions are sound; its statements are reliable, and its influence wide and canstantly increasing. May its rituaphs continge until everybody shell recognize the merits of FOREST AND STREAM.—Hangor News.

Game Bag and Gun.

THE FULL TEXTS of the game laws of all the States, Terri-tories and British Provinces are given in the Book of the Game Lans

INTRODUCTION OF THE CHOKEBORE.

Game Lows.
INTRODUCTION OF THE CHOKEBORE.
INTRODUCTION OF THE CHOKEBORE.
Intractional control of the shelves of a book store the other day.
It was my good fortune to obtain a copy of "The American Shooter's Manual," by a "Gentleman of Philadelphia County," published in 1827 by Caraey, Lea & Carey, It was copyrighted in May of that year. The various articles on "Shooting," the "Dog," "Gin," "Ducks," etc., are remarkably clear and concise. Among other subjects treated of is that of the boring of gun barrels. As the book is probably quite rare, it may be well to give the quotation in full:
"Not many years since," the author writes, "bell muzder, as they were called, were all the rage, but they are at present entirely out of use. Mr. Johnson surgests that to bore be made somewhat larger at the breach [sie] and some inches up the barrel." The huthor then quotes Mr. Johnson's account of the manner in which he discovered with its shooting qualities. On examination he found it hat this peouliarity of bore, and so he had a very inferior gam rebored by the method he gives, with results "that far passed his more sanguine expectations." This Mr. Johnson was an Englishman who wrote "The Sportsma's Encyclopedia," 1831. Our author seems to quote from an earlier work.
The the volume entitled "Sport with Gun and Rod" (edition of 1883) published by the Century Co., we read on uncloaded Hawker, in 'Instructions to Young Sportsmen,' Endon, 1814, had very strong opinions against chokebores. We next find mention of chokeboring in 1835, in Deyeux's Le View Chasseur. Mr. Long in his 'American Wildfowl Shooting,' New York, 1879, gives the invention of a really successful mode of chokeboring to the store of the wake, should have hit upon this plan in the very year in which an American author guing from an English book described the method rot. "The supposition is correct, we are enabled to trace the other hand it is perfectly possible for Mr. Smith, the net is supposed to have been the invent

Shooter's Manual." We conclude, then, that the chokebore was introduced into this country in 1827, rather than that it originated here. However distasteful this view of the subject may be to us as Americans, yet the evidence seems to be largely in its favor. J. STUARF AUCHINCLOS. PHILADELPHIA, Pa.

GOSSIP OF GAME AND GUNS.

PRILADELEPHIA, Pa. **COSSIP OF CAME AND GUNS.** R UFFED grouse have been scarcer in this vicinity dur-ing the season just closed than at any time eince the last of September and the three of us spent a week hunting grouse and woodcock. The total bag for the state of our week's shooting that compensated to some extent for the poor bags was the recellent work of our six months old cocker puppy. a Brant—Jill whelp from the kennel of Dr. Nicol, of Cookstown, Ontario. The doctor told us that this youngster would make a good fielder, and subsequent events have shown that he knew what he was talking about. Half the grouse we killed were shot over him. He would retrieve as well as an old dog, and a ruffed grouse is a cumbersome mouthful tor a pup that age. More than that, he could keep going as long as we could, and show fewer signs of fatigne. In '81, our last previous 'poor grouse year, water fowl were unusually plentiful, and by a strange coincidence it was the same this scason. The great banks of teal that ned to visit us in September seem to have gone to stay. but black ducks and bluebills were here in immense minubers. There was about the usual quantity of whistlers and troadbills. The last week in October we had a cold snap, accom-panied by a snowstorm, that failed to find a parallel within the memory of that well-known citizer, the 'old-est inhabitant.'' On the Sturday evening of that week Samuel Vanwart, who shoots for the St. Paul market, taking his gun and seven ''catteridges,'' all he had loaded. sel forth amid drifting snow to syp out the land and see if there were any ducks left. He went down to the pugway, opposite Layetown, on the St. John River, and found black ducks in rhange. in twenty minutes he killed thread nucks and exhausted his ammunition. Then he sat there and saw about thirty good chances go by'. Any one would not need to be acquainted with Samuel to herehow in plain view of any duck that chanced to look, and accepting no shots where he could not 'line u

vent. He shoots a 14 bore under-grip English gun, with 36in. He shoots a 14 tore under-grip English gun, with 36in. barrels. In leading, he "doesn't pay any attention to this icolishness of drams and ounces, but puts in about the right amount of powder and shot, wads well, and orimps with his fingers." There is little doubt that he has killed more ducks than any man in this Province. I heard him tell a young city tenderfoot last summer that an old hand