ROMANTIC FORESTS OF FRANCE PART OF NATIONAL SCHEME OF DEFENSE Far From Being Mere Playgrounds Les Ardennes and 11 Sale and the states of the second

and Reserves, They Are Grown Chiefly to Hinder the Advance of an Invading Army.

NE of the greatest obstacles to Mahon was beaten because this forest the German invasion of France, screened the movements of the enemy. and now one of the greatest ob- At that time there were, as there are stacles of German retreat, has been the today, five passages through Argonne, French forests, of which so much has all of them easily fortified. To effect been heard since war began and con- a way through the tangle of trees, opcerning which so little is known by posing armles at various times have the average American.

They have played an important part in in the Franco-Prussian war. German often they have aided. It was because marking them. of the Forest of Argonne, that famous wood now so constantly in the news, that the first Prussian invasion of France was repulsed in 1792. In 1815 the forests provided a cover in which Wellington sprung a surprise on Napoleon at Waterloo. In 1870 the German maneuvers before Sedan were hidden by the tree trunks of Argonne, and later, in 1871, the Forest of Orleans screened the rallying French forces for the last stand.

Sixteen per cent of the territory of France is covered with forests. In the French meaning of the word, a forest is quite different from our own norththe forests in France are varying areas of very old deciduous trees. There is scarcely any underbrush such as characterizes our wildernesses. The big tree trunks tower close together and are singularly clean of impediment, save that afforded by themselves. Mostly they are oaks, beeches, birches and maples

Size of France's Forests.

These forests vary in size from 200,-000 acres to 10,000 acres. In point of area they run:

Ardennes (Northeastern France), 200,000 acres; Orleans, 70,000 acres; Jura, 30,000 acres; Compeigne, 28,000 acres; Argonne, 20,000 acres; Ramboull-Int, 20,000 acres. There are several of lesser extent.

"The forests of France," said Professor Daniel Jordan, of Columbia University, "have played an important role in every attempted invasion of France. The first to appreciate the forests as still are in effect.

became a republic, Damourlez, who had opposing armies. succeeded Lafayette, massed his troops

he average American. In France the forests are as much of at other points than those occupied by a defense almost as the French forts. the usual passages. Such was the case

every war in which the country has troops leveled sections of the woods for been engaged for the last 200 years, artillery fire, and these positions can They have alike aided and militated be easily determined today because of against the French military, but most the smaller second growth of trees Like Battle of the Wilderness "Argonne and Ardennes are the for-

ests which have been the principal scenes of the woodland fighting in the present war. Ardennes, lying north and east of Argonne, has been occupied by both armies in turn. While reports on the subject have been meagre, it is safe to estimate that in the present crisis, where the artillery is heavier than ever before and where the conflict has been particularly desperate, thousands of splendid woodland patriarchs have been leveled by shot and shell and by axes to make way for western wildernesses. The majority of clear fire from the cannon. Similar conditions must have prevailed in Argonne, further to the south, and in Complegne. "These forests crown hilly, rugged country. The average altitude of the Forest of Argonne is 1100 feet, though in places it is 1500 feet above sea level. The eastern side of the forest caps a rocky plateau that rises abruptly in

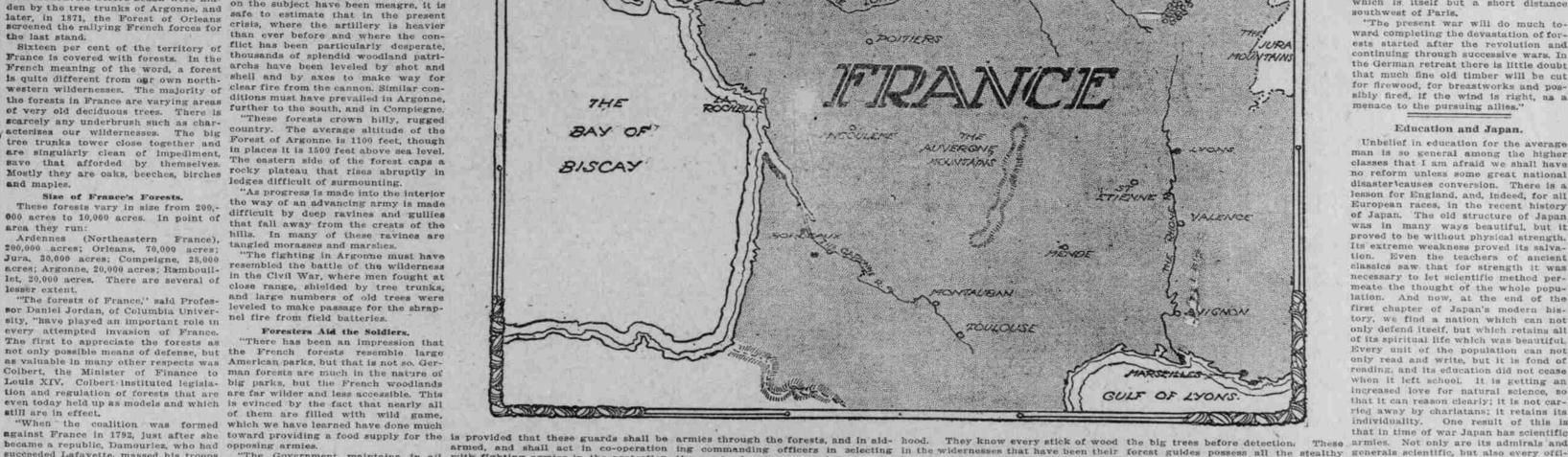
> "The fighting in Argonne must have resembled the battle of the wilderness in the Civil War, where men fought at close range, shielded by tree trunks, and large numbers of old trees were leveled to make passage for the shrap-

"There has been an impression that not only possible means of defense, but the French forests resemble, large as valuable in many other respects was American parks, but that is not so, Ger-Colbert, the Minister of Finance to man forests are much in the nature of Louis XIV. Colbert instituted legisla- big parks, but the French woodlands tion and regulation of forests that are are far wilder and less accessible. This even today held up as models and which is evinced by the fact that nearly all of them are filled with wild game,

FRANCE AND HER FOREST BARRIERS. 21502 22012 2002 2007 2007 CHARTRES. RENAMES O LAVAL ORLEANS O POITIERS ANCE THE BAY OF AUVERONE LYCANS NEXINTAINS BISCAY LTIENNE CONTAUBAN! TOULOUSE

"The Government maintains in all with fighting armies in the protection the most advantageous points for the homes. Hence they are able, through cunning and woodcraft of the Amer- cer, every private is scientific. Everysucceeded Lafayette, massed his troops "The Government maintains in all with fighting armies in the protection the most advantageous points for the homes. Hence they are advantageous points for the homes. Hence the homes advantageous points for t

in the torest of Argonne-the same torest a corps of forest guides, mea against invaders several thousand for-hilly and wooded section now playing who live, generation after generation, est guards were supplied with weapons ing of troops. such an important part in the present in the forests, and become infimately when war was declared between the war-and drove back the Prussian in-vasion with heavy loss. In 1870 Mac-embraced in them. In time of war it taken an active part in guiding French brought up in the forests since boy-and sipping sway in the shadows of a crime to cut down or injure a tree an easy lesson.—Popular Science,



Fontainebleau Bulwarks of War

in one of the German forests. Of the total number of forest acres in France the authorities own about one-third the remainder belonging to private individuals. The care of the forests is directly under the eye of the Minister of Agriculture, who has a separate department of conservation, which has charge of the guards and other forestry sub-departments. In connection with this is a school of forestry, where practical forestry is taught, and a course in this is an adjunct to military training.

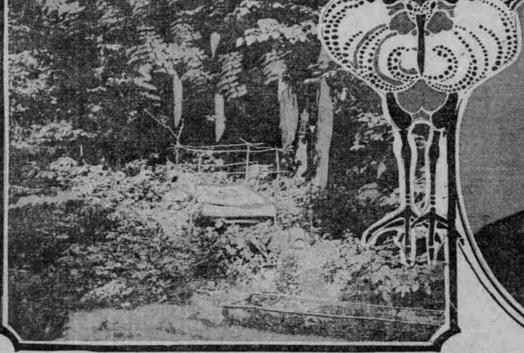
Germans May Destroy Forests.

"Most of the forests of France are in the north and east, running along the line from the Vosges to Lille, In the south there was once extensive forest territory, but following the French revolution and the division of territory among the peasant classes much of this splendid woodland was cut off and never replaced. Chief among the forests in the south are Fontainebleau which is itself but a short distance southwest of Paris.

"The present war will do much to ward completing the devastation of forests started after the revolution and continuing through successive wars. In the German retreat there is little doubt that much fine old timber will be cut for firewood, for breastworks and possibly fired, if the wind is right, as a menace to the pursuing allies."

Education and Japan.

Unbelief in education for the average man is so general among the higher classes that I am afraid we shall have no reform unless some great national disaster tcauses conversion. There is a lesson for England, and, indeed, for all European races, in the recent history of Japan. The old structure of Japan was in many ways beautiful, but it proved to be without physical strength. Its extreme weakness proved its salvation. Even the teachers of ancient classics saw that for strength it was necessary to let scientific method permeate the thought of the whole population. And now, at the end of the first chapter of Japan's modern history, we find a nation which can not only defend itself, but which retains all of its spiritual life which was beautiful. Every unit of the population can not only read and write, but it is fond of reading, and its education did not cease when it left school. It is getting an increased love for natural science, so that it can reason clearly; it is not carried away by charlatans; it retains its individuality. One result of this is



The Bustic Bath

departments of the National Adminisstate in the Union, have given enthusifight.

ing his business hours, and bird pro- terials for the birds.

contemplates the saving of all insect- in the thick and but ex- produce markets may invariably be in the Spring, when the female can-destroying birds, which, according to place an lived on the suet supplied in officials who have made a study of the food boxes. The work of feedlar the birds of the continent. traced to the ravages of the deadly in-the subject, would result in the saving The work of feedlar the birds of the continent. the consciences the food boxes. The work of feedlar the birds of the continent. the birds of the continent. traced to the ravages of the deadly in-chard, the chickadees fed on these. While the trees in the neighboring or-graphent is one columniate the birds of the continents. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The work of feedlar the birds of the continent. The trace of the trace of

Statistics prepared by the Bureau of seen not only on the grounds of Mr. "Charley" White, bird lover, and logical Survey, who has made a close ed by the trinter were easily disposed ground. Charles E. White, board of trade mem- study of their habits. Certain species which did appear were easily disposed ground.

BY ROBERT H. MOULTON. UT in the deep woods about Kenil-worth, a suburb of Chicago, a Sugars

are expected to make a series of resist-less raids on the high-cost-of-living forces. Already the co-operation of several Already the co-operation of several the overhanging trees near the White allow them to remove all of the such been shorn of all speculation. Proper Fosburg in Massachusetts proved contration has been enlisted in this blood- home is sufficient to learn how the supply at once. less war. Officials of the state and problem of protection is being accom- The result of the feeding plan is

greatest importance, food boxes con- entire year.

army of allies are the thousands of the North for sunnier lands, do not and insect worlds will be restored once late. Drastic measures may be taken of the stomach contents of a few chick- celebrated monastery of all Russia. Re- foreign lands."

Chas. E. White

municipal government, as well as pub- plished there. There are cozy bird that the musical call of the chick-alic-spirited citizens in nearly every houses of every size and description, dee, nuthatch, tufted titmouth and prominent operator enters the market old, neglected orchard was selected ments, of Bourlattes, who are Budd- fore God, mountains of gold will not fountains and bird bathing beaches for other feathered inhabitants astic assurances of assistance in the their exclusive use, and, last but of heard in the vicinity of Kenilworth the minute" reports from field agents. Of effort was made to attract the birds called lamas, under the dalaliama of

Charles E. White, grain broker dur- taining suct and nest building ma- But this is in a comparatively small that cannot be eliminated. area, and Mr. White hopes to extend

Mr. White's plan is a simple one. It gratory birds have spent the Winters small boys and the vanity of women forever. The flurries in the grain and pupae of other injurious insects. contemplates the saving of all insect- in the thick shrubbery on the White denuded the forests and all but ex- produce markets may invariably be In the Spring, when the female can- their consciences,

2W BIRDS ARE TO SAVE BILLION DOLLARS A YEA

Scientific trading in "The Pit" has An experiment recently made by E. H.

buying and selling must be based on clusively the value of wild birds as course there is one element of risk by means of suet and other food. By Thibet.

 75,000,000
 weaker birds and took possession of \$5,000,000
 saic a spot as the Chicago Board of the entire supply.
 revealed 500 mosquitoes—indicating a produce any fruit. The exception was formed us share to prevent this the box now \$5,000,000
 In order to prevent this the box now in use was constructed. Its back con-the notes of the dweilers in the woods.
 revealed 500 mosquitoes—indicating a produce any fruit. The exception was revealed 500 mosquitoes—indicating a produce any fruit. The exception was revealed 500 mosquitoes.
 Ing is to save the birds. That \$1,000.-000,000

worth, a subdre of Chicago, a man is working out a plan to box a matter of \$1,000,000,000 a year off the Nation's cost of living. He is organizing a vast army of allies that are expected to make a series of resist-but his heat cost of living. He is are expected to make a series of resist-but his heat cost of living. He is are expected to make a series of resist-but his heat cost of living. He is are expected to make a series of resist-but his heat cost of living. He is are expected to make a series of resist-but his heat cost of living. He is are expected to make a series of resist-but his heat cost of living. He is are expected to make a series of resist-but his heat cost of living. He is heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-but his heat cost of living. Heat make a series of resist-heat a series of resist his heat cost of living. Heat make a series of resist his heat cost of living. Heat make a series of resist his heat cost of living. Heat make a series of resist his heat cost of living which every to consume twice their weight in leaves heat a series of resist heat a series of heat heat a series of resist heat a series of resist heat a strong wire net that is his series and cost of living which every to consume twice their weight in leaves heat a powerful influe per day-which is equivalent to a horse the notes of the dwellers in the woods, ous than any other known form of life, by Mr. White, friend of the birds, as years, he says, is a conservative esti-But Mr. White is an idealist with a Their appetites are as astonishing as evidence to back up his assertion that mate of the gain through the saving of

(Continued From Page 2.)

every known fact obtainable. When a pratectors of fruit-bearing trees. An are companies, perhaps entire regi- your gold, what will it serve you? Behe does so fully fortified with "last and during the Winter months special hists, spiritually governed by priests buy you back!"

nancial backer of the movement. His migratory birds that annually desert that nature's balance between the bird of unseen propagation. Then it is too of the feeding habits and examination monks of Troitzko-Sergulef, the most not listen to the doctors when one is in

about his picturesque place at Kenil-worth. mate. Lack of food has starved them the greedy saws of woodmen, the mur-words, but that which is gone is gone canker-worm moth, and the larvae and formed by telegraph that the lamas of Keep chaste And God protect you? the Bourlattes impose it equally upon

the subject, would result in the saving of \$1,000,000,000 worth of grain and foodstuff that otherwise is destroyed each year. The work of feeding the birds has feathery tribe that once inhabited the foodstuff that otherwise is destroyed in the construction of a spe-cial design of food box that may be cial design of food box that may be cial design of food box that may be the deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the sectory are disappeared to deciars that 90 per cent of the that once inhabited the "Insect-destroying birds are called the chards were badly infested with the "police of the air" by Henry W. Hen-scale of the sectory are disappeared to the United States Bio- in the orchard which had been frequent-tory are does not strike a man who lies on the local design of the deciars that 90 per cent of the "Insect-destroying birds are called the chards were badly infested with the "Insect-destroying birds are called the otherwise is destroyed by the bad been frequent-tory are does not strike a man who lies on the local destars that 90 per cent of the "Insect-destroying birds are called the otherwise is destroyed by the bad been frequent-tory are does not strike a man who lies on the local destars that 90 per cent of the "Insect-destroying birds are called the otherwise is destroyed by the bad been frequent-tory are does not strike a man who lies on the "Charley" White, bird lover, and logical Survey, who has made a close ed by the Winter birds, and the few does not strike a man who lies on the

Statistics prepared by the Bureta of seen hot only on the grounds of Mr. Biological survey of the United States Department of Agriculture show that the annual damage caused by insect the annual damage caused by insect the state of the ground or the business and sentiment. They and disease-breeding insects that annu- to the locality. The trees in other or- gel, who fights with you, by doing in deep subjects. Take history, for instance, the tween discovered that the work of the ally collect a toll of death among the chards were almost stripped of their useless harm to your enemy. Do not instance, the type of the

body falls into the trench and there.

Of course, they are great children.

The monks of St. Sergius recommend.

Keep chaste. And God protect you!"

The wife and

that cannot be eliminated. this means chickadees, nuthatches, Of course, you understand, these are them not to risk strange foods, drinks It comes with a sudden awakening woodpeckers and creepers were at exceptions; the mass of Cossacks are or medicines: the tor during his leisure, is the head. In his brief period of experimenting, the work of education to every corner to the unshakable grip which the in- tracted to the orchard, remaining dur- devout orthodox Christians, particularly Side head in the period of experimenting, the work of education to every corner to the unshakable grip which the in- tracted to the orchard, remaining dur- devout orthodox Christians, particularly Side head in the period of experimenting. The work of education to every corner to the unshakable grip which the in- tracted to the orchard, remaining dur- devout orthodox Christians, particularly Side head in the period of experimenting. The work of education to every corner to the unshakable grip which the in- tracted to the orchard, remaining dur- devout orthodox Christians, particularly Side head in the period of experimenting. The work of education to every corner to the unshakable grip which the in- tracted to the orchard, remaining dur- devout orthodox Christians, particularly Side head in the period of experimenting. The work of education to every corner to the unshakable grip which the in- tracted to the orchard, remaining dur- devout orthodox Christians, particularly side head in the period of experiments in the period of experiments in the every corner to the orchard, remaining dur- devout orthodox Christians, particularly side head in the period of experiments in the period of experiments in the every corner to the orchard, remaining dur- devout orthodox Christians, particularly side head in the period of experiments of the full Maladies come because one does the period of the United States, with the result sect pests have secured after months ing the Winter months of the most not listen to the doctors when one is in the period of the tracted to the doctors when one is in the tracted to the doctors when one is in the tracted to the doctors when one is in the tracted to the tracted to the doctors when one is in the tracted to the tracted to the tracted to the tracted to the tra

"Brothers, keep your consciences.

Is it not a curious sight to see the heathen Bouriattes sit down beside the

Hat-Trimming in History.

"How

COSSACKS ARE COMING!

Norking in Combination.

