

withstanding an immense increase in the acreage devoted to the crop, they are being incompletely utilized, so that the Department of Agriculture is about to issue a special bulletin calling attention to the chances for making money by raising the "goober."

A very striking feature of the document in question is the showing it makes of the many new uses to which peanuts are being put nowadays. They form an important ingredient in the vegetarian "meats" which are much more widely consumed than most people imagine. Some of these "meats," by the way, are made to imitate breaded lamb chops, with sticks of macaroni for bones. Peanuts are employed largely in the confectionery trade, and enter into the composition of many fancy cakes, such as macaroons, as a substitute for almonds. Peanut butter (likewise much affected by the vegetarians) is manufactured by the ton, and, put up in neat packages, is greatly esteemed for automomile lunches.

Now that the pestiferous boll weavil is ruining the cotton over such wide areas in the South, many planters are turning their attention to peanuts as a money crop. Although \$12,000,000 worth of "goobers" were raised in this country last year, the supply is still not nearly equal to the demand -a condition sufficiently proved by the fact that we are importing great quantities of peanut oil from Europe. Thus, too, although there are tens of thousands of acres of waste lands in the Southern States which are only waiting to be tickled with a hoe in a proper manner in order to yield enough peanuts to furnish all the oil we want, plus a liberal supply for

Before the civil war there were practically no peanuts eaten in America, except by the negroes and the whites of the same social grade. Now more than 300,000,000 pounds of the nuts are consumed here annually. Fifty years ago nobody thought of raising peanuts for profit, and the few that were grown were either in the "gyarden patches" of the slaves or as curiosities in the experimental gardens of scientists. Now there are nearly 500,000 acres in the United States that are planted to peanuts, and 200,000 persons make their living as "hands" in the peanut fields, to say nothing of the other people employed in the "factories" where the nuts are cleaned and prepared for market.

No food product known, say statisticians, has had such a remarkable and such a rapid rise as the peanut. Nothing has sprung into popularity so quickly and so completely, and in the face of such an accumulation of preconceived prejudice, and there are few crops grown at the present time in any part of the world that yield better returns for the money and labor invested than the peanut crop of the United States.

The reason for it all is that during the civil war, when food was scarce, some hungry Confederate soldiers raided the "gyarden patch" of an old negro down in Virginia, and, for lack of anything better, confiscated all his peanuta. They found the peanuts were good to the taste and satisfying. They also discovered that the peanut made excellent food for horses. They wondered why they had never discovered these facts before, and, in thinking the matter over, they remembered how fond the negroes had always been of the little "ground peas," as they are often called even yet in Virginia, and how fat the little pickaninnies always were when the peanuts were bing picked. When the war was over and these soldiers went home to their battle-wasted plantations and began looking round for a way to bring a living out of the barrenness which they found, some of them thought of the peanuts. They borrowed some seed nuts from the negroes and planted their fields to peanuts, and without any knowledge of how to raise the crop. and little available labor for cultivating it, they succeeded in making a good crop the first year.

That was the beginning. Peanuts have been valuable as a marketable commodity in America from that time. At first only the common people used the nuts, but there happened to be enough of that class of society to make peanut raising profitable from the start, and since then common sense

OF WASHINGTONS

ZOOLOGICAL EXPERTS

time, encaged in that far-off land.

ATCHISON GLOBE SIGHTS.

alony worthy people have poor

Don't be fanatical. It is a form of

By affinity is meant the first man

Watch the individual who uses "I

"I sarn all I get," is an expression

you frequently hear married women

who asks.

sald" too freely.

Do animals reason?

PERNUT FIELD and experimentation upon the nuts as an article of food have gradually broken down the prejudice against them. Now everybody eats peanuts, the small boy at the circus and the epicure in his home, and man and beast alike are benefited by the many uses to which the humble, and for so long despised, little nut has been put.

THE PRINCESS OF THE

Many people are surprised when they learn how many things are made from the peanut, and how many ways the little nuts themselves are eaten. Everybody is familiar with the "fresh-roasted" of the corner stand, and the automatic whistle, and with peanut candy of all kinds, and some kinds that are not supposed to be peanuts, such as nougat and "burnt almonds." The recent popular confection known as salted peanuts is another way in which 200,000,000 pounds of peanuts which this country alone produces every year are consumed. Then there are all the so-called health foods-peanut butter, peanut flour, from which bread and pastry of all kinds are made, peanut "coffee' and "cocoa," peanut meal, which forms the foundation for patties and croquettes, and vegetarian "meat" rolls, and, lastly, peanut oil. If nothing else could be made from the peanut, it would still be a very profitable crop, for shelled peanuts yield from 38 to 42 per cent of oil, and peanut oil has so many uses that the manufacture of it is fast becoming a more important industry than the making of olive oil.

The peanut vine or straw from which the nuts have been removed is of considerable value for the feeding of live stock. The ash from the shells used in the factory as fuel is valuable as a fertilizer, containing as much as 3 per cent of phosphoric acid, 9 per cent of potash and 6 per cent of lime. The thin brown envelopes of the peas have a feeding value almost equal to

The cultivation of peanuts was until recently confined almost wholly to areas in Virginia. Tennessee, the Carolinas and Georgia, but during the last ten years it has spread throughout the South Atlantic States, and even as far west as California.

The peanut plant, like the bean and the garden pea, has the power of collecting nitrogen from the atmosphere and storing it in little nodules upon its roots. For this reason it is one of the most desirable of soll-renovating and soll-improving plants. It is necessary, however, with a view to this end, that the main portion of the roots shall be left in the ground. If this be done, the nitrogen accumulated in a scason by the means described will have a fertilizing value of \$3 or \$4 an acre.

Peanuts give an average yield of thirty-four bushels to the acre, but it is believed by government experts that the output can be increased to fifty or even sixty bushels by selecting superior seed from season to season.

## MANY MILLIONS LOST

Injurious Mammals and Insects Cost \$789,000,000 Every Year.

NATION IS SEEKING REMEDY.

Magnitude of the Work of Agriculture Department in Extermination of Destroyer.

In the message of President Roosevelt, transmitting a report of the National Conservation Commission, which was sent to Congress last January, appears the astounding statement that 'the losses to farm products due to injurious mammals is estimated at \$130,-000,000 annually, and the loss through insects is reckoned at \$659,000,000 annually,"

These statements are confirmed by

the Secretary of Agriculture and the scientists of that department who have charge of such matters. It is asserted that the prairie dogs in the State of Texas alone eat as much grass every year as would feed a million and a balf of cattle. There are estimated to be 400,000,000 prairie dogs in Texas. an average of twenty-five to the acre. and 200 dogs will eat as much grass as a steer. Besides this, the value of the land is very much injured by the dogs, because they dig up the roots of the grass and destroy it. Then, when they have cleaned out all the vegetation in their neighborhood, they migrate to another section and continue their work of destruction. The result is that entire townships of land have been made barren by their ravages. Texas, states have been working for years to destroy the dogs by means of poisoned

West of the Mississippi river ground quirrels are exceedingly destructive, and cause the loss of many millions of mals differ considerably from birds. dollars annually. In California alone very year they eat up about \$2,000,000 wholesale destruction is called for, worth of wheat, and they carry the since, by devouring destructive insects, germs of diseases which can be communicated to human beings through the for any mischief they may commitagency of fleas. The State of Washington is troubled in a similar manner. and spends \$25,000 a year in fighting fulness of such servants of man as bats, the pests.

are being overron with field mice. In ed, that their lives may be spared and Humboldt Valley last year the mice de- they be allowed to continue their good stroyed 15,000 acres out of a total of work, 20,000 acres of alfaifa, so that the fields had to reployed and replanted.

ants and manufacturers. The inquirles damage by rats in these centers of pop- and wherever possible.

ulation entalls a direct less of \$20,000, 000 annually. This enormous sum gives an Idea of the still greater total loss inflicted by this redent throughout the length and breadth of the land.

The officers of the biological survey say that the gopher also does a great deal of damage to the crops, because it feeds upon the roots of plants and destroys great quantities of grain and garden stuff. It also throws up mounds of earth, which bury the grass and other crops. Gophers have recently proved a serious annoyance to the rrigation service by burrowing under the dams and embankments of the eservoirs and canals, causing expenive leaks and breaks. No animal, lowever, is more easily controlled by traps and poisons, and at the request of the reclamation service the biological survey recently sent out men to devise ways and methods of trapping ophers, so that now the animals are practically exterminated upon the govrnment freigation system, although they are likely to come back again if hey are not looked after. It is imposible to estimate the amount of dam-

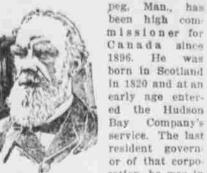
ge that they have done. Rabbits are also doing a good deal of damage, particularly in the fruit ountries. In Australia a few years go they became so numerous that the utire population used to join in rabbit drives and staughter millions of them at a single meeting. Rabbits breed so rapidly that it is difficult to keep them down, but it has been discovered that an inexpensive whitewash made of lime and sulphur will protect orchard trees gainst rabbits for at least a year, when it must be renewed.

Wolves and coyotes are being gradually exterminated on the Western plains. Secretary Wilson says that nore than 1,800 welves and about 24,-000 coyotes were killed last year by loenting their breeding dens and polsonng the young. He urges that this work be continued throughout the West so long as wild land exists in vast tracts where they can find safe harborage and breeding grounds. Hitherto the losses to stockmen have averaged \$200,000,-Kansas, Colorado and other Western | 000 a year from these animals, but he says that by persistent effort and at a comparatively small cost they can be kept down so as to limit the damage done by them to a minimum.

In their relation to argriculture mam-Few birds are so harmful that their most of them render a full equivalent Such is by no means true of mammals, A few are very beneficial, and the useskunks, weasels, badgers, foxes and In Nevada the agricultural sections moles should be known and appreciate

Every year witnesses an increase in the number of sportsmen who pursue "The rat continues to cause enormous our game birds, every species of which sses throughout the entire United plays a more or less important part in States," Secretary Wilson says, "and destroying theect life and preserving during the past year an attempt was the bulance of nature; and this, too, made to ascertain the approximate while the reclamation of vast tracts of damage done to property by this ro- wild land for agriculture and other dent in the cities of Washington and purposes encroaches on the breeding altimore. Many business men were grounds of game birds, which are thus nterviewed, including dealers in var- gradually becoming fewer in numbers, lous kinds of merchandise, feeders of while the demand for them becomes horses, managers of hotels and restaur- greater and greater. Many of our insectivorous birds are also killed for included all sections of the two cities food, despite the fact that state laws and both small and large dealers. It almost everywhere prohibit such is estimated that the loss from rats in slaughter. With these and other forces Washington is about \$400,000 a year, acting against the welfare of our birds, and in Baltimore upward of \$700,000 it becomes doubly important to use a year. Assuming, as is probable, that every means in our power not only to similar conditions obtain in all our prevent the reduction of useful species, cities of over 100,000 inhabitants, the but to increase their numbers whenever

Lord Strathcona, who was injured by being thrown from his carriage while driving to his ranch near Winni-



ration, he was in LORD STRATHCONA. 1870 appointed member of the first executive counil of the Northwest Territory, and subequently became a Canadian legislator. He is a director general in several railway companies and president of the Bank of Montreal and holds several honorary degrees from universities. In 1897 he was endowed with the rank of baron.

Clyde Fitch, the playwright, who lied following an operation in France or appendicitis, was internationally

known as a playwright and bad een the author of a large number of popular dramatic productions since his first effort, "A Wave of Life," was published in 1889, three years after his graduation from Amherst College. His second work,"Beau Brum-

CLYDE FITCH. mel," was written for Richard Mansfield and was played nearly a thousand times by that actor. For nearly all the stars of the modern stage Mr. Fitch wrote plays that became widely known. He was born in New York in 1865 and lived in the city, with a

Admiral Sir Edward Seymour has been detailed as the naval representative of Great Britain to the United

States, and as a

result a controver-

sy is agitating na

val circles. Ger-

many claimed to

have sent the

ranking naval of-

ficer in the person

of Grand Admiral

Koester. There

are only two

grand admirals in

the German navy.

and the other is

the Czar of Russia

country place at Greenwich, Conn.



But England has sent Admiral Seymour, and it is claimed that his rela-Koester and that he finally wins in the race for leadership by reason of the fact that his title antedates that of the grand admiral of the German

Edward H. R. Green, who has bought an aeroplane and says he will use it on his Texas plantation if it

works satisfactorily, is the son of Mrs. Hetty H. R. Green, one of the wealthlest women in the world. He has been owner and president of a Texas railroad since 1893 and has other large busi-

ness interests in the Lone Star State. His home is at Terrill, Texas. Mr. Green was born in London, England, in 1868, and in early life lived in New York City. Hewas graduated from Fordham College in 1888, then studied law, and after being admitted to the bar entered rail-

Prince Henry of Prussia, who has retired from active service as admiral commanding the German fleet, is Kalser Wilhelm's only



road work.

years and six months. He has re-

cently become 47 years of age, having been born Aug. 14, 1862. Bred to the sea, he is popularly called "The Sailor Prince," and is a favorite

brother, whose ju-

nior he is by three

PRINCE HENRY. throughout the fleet because of his democratic ways and his love of fun. He is an athlete and many stories are told of his physical prowess. It is said that Prince Henry after a vacation will become inspector general of the navy.

## New Turbine Invention.

A reduction gear for marine. 1317 bines, which is expected to cause a great weight-saving in the machinery of ocean-going craft, is said to have been invented by Rear Admiral G. W. Melville, George Westinghouse and a former naval officer named McAlpine The report emanated from the Westaghouse shops at Pittsburg, where the levice has been perfected and patented. It is believed that it will enable warships to carry 14-inch guns. Details are not yet made public.

Matters of importance in connection with the reform movement in the national civil service were discussed at demonstrated that it is possible for a Rockland. Maine, by thirteen promisingle locomotive to haul over 6,100 nent men, comprising the executive committee of the National Civil Service Reform League. The deliberations will be made public at the annual meeting of the league in December.

Floors and walls of rooms of high school buildings streaked and daubedy with Greek letters in red paint, were evidences of the strife which has broken out between the Sringfield, Ohio. school authorities and the recently aupuresued high school frameration.

MORE THAN HALF A MILLION TRAMPS NOW ROAMING ABOUT THE U. S.



T IS conservatively estimated that there is an army of at least 500,000 tramps in the United States. This figure is calculated by taking as a basis the number of tramps killed on the railreads every year and multiplying it by the proportion of train men killed in the year compared to the total number of train men killed in the year compared to the total number of train men employed. But it is entirely probable that

the number at present reaches nearer 1,000,000 than 500,000, says the Review of Reviews. The recent industrial depression added large accessions. Reports from railway agents throughout the country show that never in the history of the railroads was so large a number of tramps met with.

A large proportion are youths ranging from 16 to 21 years of age. Beginning with a yearning for adventure, about one-half quit the nomadic life and return home, or settle down, while the remaining half become inveterate tramps and gradually tend from vagrancy into a career of crime and semi-crime. A very large percentage of tramps, however, are adults, and comprise every species from men who will not work or who have become chronically unfitted for work, to those who are innocent victims of downright adversity that knocks and keeps them down.

Both the charitable societies and the railroad corporations have long desired some practicable method of dealing effectively with all aspects of the tramp problem. If it could be done the charitable societies would be relieved of a burdensome drain upon their time and resources, and railroads would benefit by the stoppage of the great losses and annoyances to which they have been subjected, while from a humanitarian standpoint the tramp would be given an opportunity to regain his standing in society. Hitherto all experiments have falled.

The charitable societies and the railroads believe that they have at last come upon a plan which is quite certain to prove efficacious. This plan is a transplanting, with certain modifications suitable to American conditions, of the tramp colony idea already in force in Holland, Belgium and Switzerland. Since the instituting of these colonies vagrancy has been unknown in those countries, and although they have certain features which cannot well be adopted in this country, the general plan of these European experiments will be followed.

NOTES FROM WORLD OF SCIENCE

If a nail be dipped into off before being driven into hard wood it will enter without splitting.

make it cut more smoothly and prevent it from clogging. Italy is to build four "Dread-

noughts" and several swift scout cruisers, at a total cost of \$52,800,000.

North Carolina, South Dakota, Colorado, Alabama and Virginia, in the order named, lead in the production of

mlca. In their writings the Chinese use at least 214 groups of signs, each con-

France has followed the lead of the United States in the establishment of a laboratory for the investigation of

purse in the palm, fastening with the usual clasp, to prevent loss of the contents. Into the trade school at Liege, Bel-Oiling a file used on soft metals will

gium, there has been introduced a course in cigarmaking, fostered by government subsidy. Shellac will be more pliable and will

A novelty is a glove containing a

spread more easily if a small amount of gum camphor be added to it. Tests by an Eastern railroad have

A windmill successfully drives a

dyname in an English mill, even waen taining from five to 1,354 separate the wind blows as slowly as six miles an hour.

year in New York are attributed to germs carried about and deposited upon food by flies.

O ANIMALS REASON? keepers of all the great gardens better at night, and therefore take throughout the world have since that their prey with greater ease, but they time devoted themselves to the solution of the problem-do animals reason? There are no wiser men in America

than those who have charge of the National Garden in Washington, and among them there is none whose knowledge is more extended than that of Mr. Blackburn, head keeper of the Zoo, und here that does not reason, when who for thirty years has devoted his kind of creature, from the lizard to the

"Yes, I have read all the nature faker stories," he said. "But I have It is a question that has absorbed yet to learn, after all my experience. scientists with increasing interest ever just what is meant by 'instinct' as dissince the days when Prof. Garner entinguished from reasons. Scientists desconced himself in a cage in the jun- fine instinct as 'inherited habit,' or, as gles of Darkest Africa and attempted another learned professor of psycholto converse with the resident monkeys. ogy puts it, the blind pursuing of a According to the professor's reports, means to an end.' All this is too techthe apes whose acquaintance be made alcal for me. I cannot see the differduring his visit not only reasoned, but ence between a man going under the had a well-defined language of their shade of a tree to get out of the hot sun, own, and the learned man went to far and a deer who grazes in the meadow as to suggest a monkey grammar, had during day, going into the mountain he only patience enough to jungle his crags to sleep, where it knows it will be safe from the lowland wolves. The Prof. Garner's opinious, however, man certainly reasons that under the have been regarded by conservative shade of the tree he will be protected scientists as more the result of enthal from the heat of the sun; why can it every kind of animal, except Teddy other. slasm and vivid imagination than abso- he said that the deer reasons less when lute fact. But while goologists have it seeks a sleeping place secure from should doubt the power of animals to

taken his statements with a grain of its enemies? Why should one be called Franch. salt, his investigations into the reason- instinct and the other reason? ing power of animals aroused an in-

> his selling price. Don't give picules; be a guest, and

Every man has his asking price, and

make fun of the management. After a man has been a rabbit a great many years it is difficult to turn

If a man behaves himself, people say he is cunning, and hides his meanness.

People do many things that they do not like to do, that they do not need to do.

can lie safer from their natural enemies, Among carnivorous animals, there has never been a case known where a hungry creature attacked one that overmatched it in strength.

"Generally speaking," said Mr. Blackburn, "I think there is hardly an anioccasion requires. For instance, we time to the care and study of every have whips hanging up throughout the different animal houses, with which to diastise refractory or stubborn beasts. It is but a short time before a new animal comes to know the meaning of the whip, and generally all that is necessary for a keeper to do is to reach toward the book on which the whip is hanging; the animal knows what that means, and does what he has before refused to do. It seems to me that is

reasoning. Lions and tigers, according to Mr. and emerged in the spring as moths, Blackburn, exhibit little reasoning This, thinks the scientist, was conclupower, except in the matter of getting sive evidence that the caterpillars had something to eat. Sinkes exhibit the thought it all out for themselves. smallest degree of intelligence, and in the smailer species seem hardly to have

ense enough to get their food, bears, expresses wonder that any one

"There are different grades of mental "The animals of the cat tribe stay power in animals just as there are terest never felt before. Curators and hidden by day. They can not only see among the human race," he said.

ters.

An Italian engineer has completed a CLASSIC ENGLISH. "Nothing doing."-Addison's "Let-125 miles an hour.

"Cut in and win."-Thackeray's Telephone communication between Vanity Fair. London and Madrid, via Paris, will, it "Twenty-three."-Dickens' "Tale of is thought, be established by the end Two Cities. "Gone to the wall."-Bunyan's "Pilof this year.

gr m's Progress." "Forget it - cast it away."-Hawthorne's "Marble Fawn." "Make good.'-Deuteronomy, which ous year and was more than three is a book in the Bible.

te four-footed highbrow is the elehant. Most animals do their tricks nerely to get food, but the elephant goes through his stunts as a matter of lufy; you cannot bribe him or force him by withholding his rations. Ele phants are also endowed with a sense of humor."

From my experience, I've decided that

But Dr. Edmund B. Southwick, the minent New York bug scientist, goes far beyond all others in his conclusions, and asserts reasoning powers even in insects-a fact that will be admitted, however, by any one who has ever had a duel with an indignant bumblebee. Dr. Southwick cites a case of some brainy caterpillars that were taken out of a tree on a New York street, and in seeking to get back to their feeding ground of leaves elimbed the walls of adjacent houses. Finding nothing to eat up there, they concluded there was no use staying outdoors any onger, and they might as well go into winter quarters, although it was long before the time they should have ceased feeding, and spin their cocoons, Accordingly they wrapped themselves up in their webs, spent the winter there,

Asosan, in Southern Japan, has the largest volcanic crater in the world Clyde Powers, with twenty years of It measures fourteen miles across sircus experience in the training of one way, and more than ten miles the

> Italy has seventeen tobacco factories. Ninety per cent of the operatives are women, who are paid on a piece system and earn from 48 to 58 cents a day,

small hydroplane capable of skimming the surface of the water at a rate of

Trade of the United States with its non-contiguous territory in the fiscal year 1909 exceeded that of any previ-

characters.

The deaths of 5,000 young children a

times as much as a decade ago. mine accidents.