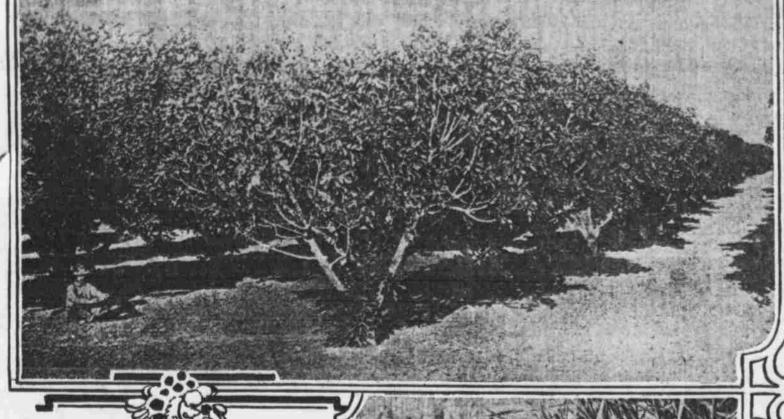
# Southwestern "Deserts" Yield Rich Fruits of the Earth



SMYRNA FIG ORCHARD AT FRESIVO

(Copyright, 1911, by Frank G. Carpenter.)

SHINGTON, D. C .- (Special to The Bee.) -Uncle Sam raised enough dates last year to give every man, woman and child in the country a handful and leave some to spare. The amount was 20,-000,000 pounds, and the fruit was as fine as that which comes from the oases

of the Sahara. Much of it was raised about the Salton sea, in Southern California, where it is so hot that the hens are said to lay boiled eggs and where, as is alleged by others, there is only a sheet of brown paper between it and the lower regions. Other dates were grown in the Rio Grande valley of Texas, and others on the scorching sands of southern Arizona. The Arabs say that the date palm must have its feet in the water and its head in the burning sun.

Those are the conditions in many parts of our great southwest. The sun is white hot, but by irrigation the palms are kept moist, and they produce this delicious fruit, which contains more sugar than any other on earth. These potential date regions are very extensive. I have been inquiring about them of the Agricultural department, and Mr. Walter T. Swingle. who has special charge of this industry, tells me that be have several million acres that will raise excellent ates, and that we could, if we would, supply all the fates that are eaten by man.

### The Dates of the Sabara.

But before I give you my talk with Prof. Swingle, let me take you through some of the date countries of the world. Many of our dates come from the Sahara, Africa, covering almost as much land as the whole United States. I have visited a number of its cases, suckers from the date trees of Africa. and have picked dates from the trees.

sand and rock. There are 80,000 square miles of the trunk of the palm, and plant them. The method great dessert food of France, and a box of fine dates tail and deposits the eggs they are close enough to bethem, a territory equal to twice that of Ohio, Kentucky and Virginia, and upon all of them the chief crop is Hates. Each oasis is measured, not by its area, but by the number of date trees it contains, and the French of Morocco and Algeria tax he people according to the size of their orchards.

Dates have the same place in the Sahara that our wheat has in the north and cotton in the south. It is the money crop, and the chief support of the people. It is the date that loads the caravans of camels that move to and fro over the desert. It might also be called the bread of the Sahara, for in some places the 'Arabs eat but little else, the fruit being fed to the camels and even to dogs.

This date stock feed, however, is different from the fruit we have in America. The oases have as many kinds of dates as we have apples. There are more than 100 different date palms in the Sahara, and many others in the Persian gulf region. The dates we eat are full of sugar, and are so soft and juicy that they must be drained before being packed. The favorite date of the Sahara is a dry date, which can be kept a long time, and which is sometimes pulverized and so cooked. Another date is deliciously sweet. It is of a yellow color, and is as plump as a prune before it is pressed.

### Persian Gulf Dates.

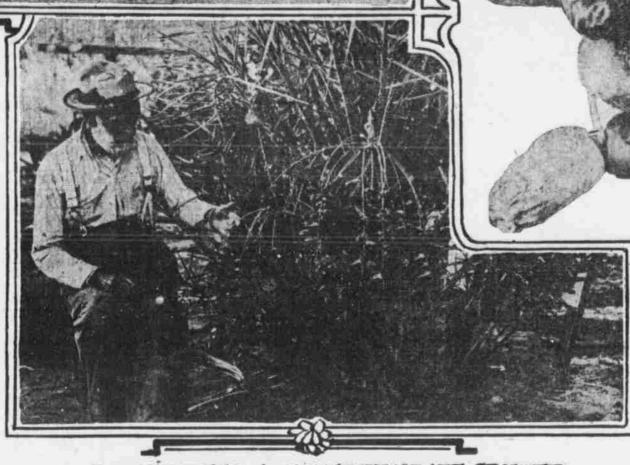
mighty date grove is several miles wide, and it con- summer too cool to ripen the fruit. tains altogether about 5,000,000 trees. It is irrigated by the river, the tides backing the fresh water into the canals and giving the roots of each palm a bath twice a day.

Mr. Fairchild heard of some that are said to be seed- spring up on it and nothing but desert plants can be be paid if they were retained in the service of the less, in this respect corresponding perhaps to the grown. naval orange which is now so common all over our

dates to the United States, and has thus been instru- using the shoots or suckers of the date trees rather approximately \$400,000. mental in giving us some of the first trees planted in than seedlings for planting new groves. This has been our arid west. He also forwarded date trees from the the same in Persia and elsewhere. It is different in of the club owners. The players obtained must be Fayoum, in Egypt, from Arabia and from other places our date gardens of the west. The scientists there are tried out in the southern training camps in order that which he visited during his travels.

### Bringing Dates to America.

figs during his stay at Naples, where he went to study \$150 profit per acre a year is not out of the way. Even camps in the south,



JAMES P. REED, A CALIFORNIA DATE GROWER

tropical agriculture about a decade or so ago. He then counting only seventy-five pounds to a tree, an acre ground for this insect. traveled through Asia Minor and crossed over into should yield 4,000 or 5,000 pounds a year.

The cases are garden spots in this vast region of hara is to take up the suckers, which sprout out from The same may be done with the date. This fruit is the short that when the Mme. Blastophagas sticks in her now being done in our fig orchards. New York and thence to the west. This method was climate which can supply any demand. costly. The steamships did not like to handle the tubs. and they charged freight at the rate of one ton per tub. The expense was almost prohibitive.

ers. He then tied each up in straw and packed them our figs still come from abroad, and we are importing flavor and make the Smyrna fig so delicious. the regular freight rates. It was found that the shoots arrived in Arizona and California in excellent business, and it has tried again and again to go into it. are so long that when the wasp puts its tail in and condition. They were transplanted in the date gar- It did not succeed, however, until Mr. Swingle brought lays its eggs they do not reach to the bottom and the dens there and rapidly grew.

### Where Our Date Farms Are.

suckers, three-fourths of which became trees, and since then we have had other importations made the same way. Some of the suckers were set out at Tempe, Ariz., not far from Phoenix. Theodore Roosevelt, while president, feasted on dates from those trees and One of the most interesting date regions of the thousands of pounds were harvested from them this world is about the Persian gulf in the valley of the year. Others of the suckers went to California, and Euphrates, not far from where the Tower of Babel some have been sent to an extensive date region which once stood, and near the supposed location of the Gar- is now being tested near Laredo, Tex. Not a few so den of Eden. I have talked about this country with imported are growing in the Imperial valley of south-Mr. David Fairchild, the agricultural explorer, who ern California. Mr. Swingle tells me that dates may has gone around the world, like a watch spring, be grown in California as far north as Sacramento, but scratching its surface for new plants and trees to in- that the finest varieties will succeed best about Yuma, riduce into the United States. He made a special Arizona, and on the southernmost edge of California. trip to study the date groves of the Persian gulf, which There is no use attempting to grow them where the are still furnishing most of that fruit that comes to temperature falls below 65 Fahrenheit, and the hotter America. Mr. Fairchild says there are something the better. There are some regions in Nevada where sideration. like 20,000,000 date palms in that territory, and that dates might grow, and this is so also in New Mexico an unbroken date forest runs along the Shatel-Arab, and all along the hot Rio Grande river in Texas with which forms the mouth of the Euphrates and Tigris the exception of a short distance near the mouth where tivers, for a distance of over seventy miles. That the moist winds from the Gulf of Mexico make the

### Breeding Fine Dates

on an alkali soil. In some of the orchards which are under contract. Some of these rising young players The Persian dates are of hundreds of varieties, and now growing the land is so salty that weeds will not were sold with the understanding that a bonus should

Mr. Fairchild sent shoots of several varieties of The Arab have tried to perpetuate the old varieties, taking the best of the old varieties and breeding new their real worth may be discerned. While the regular ones; they have hundreds of different kinds and are players run up the expenses of these camps as well as producing others each year. The trees are maie and the recruits, the latter from one of the chief concerns The man who has done more for date culture female, and Uncle Sam's match-makers are marrying of the managers, and it has been estimated that the in the United States than any other, however, is Mr. the best specimens of each variety with an idea that club owners have expended \$200,000 in maintaining Walter T. Swingle, who as a botanist and plant breeder the children that come from the seeds will have the training quarters this spring in order to find out ranks as high as Luther Burbank, the so-called wizard best qualities of each parent. With this in view the whether the players who cost them \$400,000 are of California. Mr. Swingle has bred new dates, new Department of Agriculture is sending out thousands of worth anything or not. figs and new citrus fruits, including oranges which seeds and urging the farmers of those hot, arid regions John I. Taylor, president of the Boston Red Sox, can be grown as far north as central Georgia. He has to set out date gardens. This is comparatively cheap chartered special Pullman cars to take his squad of been lagely instrumental in introducing the date and when the trees are grown from the seeds and the date forty odd players to the Pacific coast and back, at the fig into our country, and has also given us the orchards, once in bearing, prove enormously profitable. great expense. The White Sox special, which was pistachio and other valuable plants of the Mediterran- The trees begin to fruit in three years and the dates chartered by President Comiskey of the Chicago Amersan region. He has been connected with the Depart- sell at retail from 10 to 50 cents a pound, according icans, cost \$10,000, and only carried the team to ment of Agriculture for more than twenty years, and to quality. The average yield of a Deglet Noor palm Texas and back, stopping over for exhibition games.

Africa, going down into the Sahara. Prior to his visit There is no doubt but that the demand for dates to the date regions there some seedling date trees had can be greatly increased. The California Fruit Growbeen attempts by the department to import shoots or added 33 per cent to the demand for oranges in Iowa The chief way of starting a date grove in the Sa- sale of that fruit in Illinois, Wisconsin and other states. inside of the bell. In the male tree the flowers are so throw them up into the female trees, and the same is forms the chief Christmas present there. The Agriculout in tubs near the trees from which they were tural department believes that the time will come when taken and to allow them to grow for one year. At dates will be consumed by our people much as oranges the end of that time the plant in the tub was sent to are now, and they tell me that we have the soil and

### Our Big Fig Crop

here from Asia Minor the blastophagas and trained it eggs dry up to nothing. However, as the blastophagas

that great stretch of desert which runs across North been grown in California and Arizona, and there had ers' association has by advertising and marketing he drew for me two pictures of the blossoms of the and Algerians raise their figs in this way. In Smyrna, and it is spending \$100,000 this year to increase the with a narrow mouth, minute flowers being on the in halves and string them on wire sticks, and then

to work in the harness of the horticulturist.

BREAD DATES FROM MECCA GARDEIN, CAL

MESSES, FAIRCHILD AND SWINGLE DYSPECTING SEEDLINGS

fertilizing the fruit. Without it is fertilized the fruit wasps, but it works nevertheless, and such as lay their is not good; it will not stay on the tree and is of no eggs on the flowers of the male tree are enough to commercial value whatever.

DRY OR

Now the blastophagas is like the boll weevil in that it will feed upon only one crop. The boll weevil will eat nothing but cotton. The blastophagas can live on

### Fertilized by Insect Enemy.

male and female trees; each is of the shape of a bell, the fig growers cut the male figs containing the insects

realized the money that might be made out of the trees are longer than those on the male trees. They kets. lays she drops this pollen on the blossoms and fertil-I wonder if you ever heard of the blastophagas. It izes the fruit. The flowers on the figs of the male During his second visit to Algeria, Mr. Swingle is a little insect which looks like a wasp, only much tree are shorter, and the eggs reach the fruit and made one shipment of over four hundred of these smaller; its chief job in life is carrying the pollen from speedily hatch. The work of laying the eggs on the

the male fig tree to the female fig tree and thereby female trees is a deception practiced by nature on the perpetuate the race for the figs of the future.

### How We Got the Blastophagas.

The people of California knew about this insect nothing but the Smyrna fig; it can be born only in and tried to get it for a long time before they sucthe capri fig, and the figs of the male tree are seem- ceeded. Indeed, our knowledge of it dates back into ingly good for nothing but to serve as a breeding antiquity. Herodotus refers to caprification in some of his writings in the fifth century, before Christ, and Aristotle speaks of it in his history of animals. It was well known throughout the orient, and it has been While talking about this matter with Mr. Swingle carried from Asia Minor to Africa, so that the Moors

come a part of the fruit, and they soon batch therein this was attempted twenty-one years ago, but it was and crawl forth as wasps like their mother. If one not successful. During the eight or nine years followof these capri figs is cut open before it is ripe it will ing other attempts were made and failed, and then be seen to be full of grains which look much like seeds. Prof. Swingle, having spent a long time in the study These grains are minute galls, each of which contains of the insect and its methods of working, sent some a fig insect. When the insects are ready to bite their capri figs, whose cut stems had been waxed and which way out of the galls the mouth of the capri fig opens were wrapped in tin foil, to California. The wasps Another tropical fruit which is now affecting Cali- and a ring of male flowers situated below it begin to came out, but it was not the right time of year for the Mr. Swingle conceived the idea of sending the fornia, Arizona and Texas, as well as other parts of the shed pollen and carry it to the female flowers which female blossoms, and another attempt was made in shoots fresh from the tree. He sent to Paris for a west, is the Smyrna fig. This fruit can be raised over line the young budding figs on the female tree. The 1899. This was successful, and to make a long story bale of a special kind of moss, and with this, after it a great area and there is no doubt but that we could dusting of the female flowers with pollen causes the short, the blastophaga began to breed by the millions had been well wet, he wrapped the ends of the suck- produce all we consume. Nevertheless, nine-tenths of fruit to set and to bear fertile seeds, which give the a year. They are now to be found in the male trees of all the fig orchards, and we are raising fruit that in ordinary shoe boxes, which he was able to ship at 4,000,000 pounds every year. California has long . Now these flowers about the figs on the female will compete with that of Smyrna in the world's mar-

### Breeding New Figs.

At the same time the Smyrna fig is being bred, and new figs created, the very best figs are being married, and new varieties are coming into being. One of these has a gum drop in its mouth, which seals up the place where rain is liable to go in and rot the fig. This is known as the Rixford fig. It is a fruit which practically cans iself, and therefore may be guaranteed clean, without and within. Another-self-sealing variety was discovered three years ago; after two soaking rains had spoiled the figs on the adjoining trees of a different variety. Cuttings of these varieties are being distributed to all who will plant three seedling fig trees for every cutting received.

### The Maslin Fig Orchard.

One of the great breeding grounds for new figs is the Maslin fig orchard in Placer county, Cal. This is now a government station, being rented to Uncle Sam for a nominal sum by the Southern Pacific railroad. will be nearer to \$1,000,000 if the repairs to the ball overlooked by the eagle eyes of the cleverest judges It contains 199 fig trees, which were planted from the seeds of the best imported Smyrna figs by E. W. Mascharged up as well against the recruits, and would lin, the seeds having been sown almost a quarter of a century ago. Prior to that there had been attempts to raise Smyrna figs in California, but owing to noncaprification and other reasons they were all unsuccessful. Mr. Maslin thought the Turks were sending the best base ball talent which appeared in the minors us bad seeds, and so he wrote to Thurber & Co., the well known grocers of New York, to ship him a box of their very best Smyrna figs, as he wanted to plant the seeds. They did so, and having bought this plantation he gave up his office and attempted to make on which the stars of a team sit a manager feels that money orcharding. Thee seeds sprouted and he got 153 trees. Later on he found that his figs would not the minors and sold at a great sacrifice. As castoffs fruit, and he eventually had to give up his orchard and the estate connected with it.

> In the meantime Mr. Swingle tried to buy the oring the fancy prices which they demand from their chard for the bureau of plant industry of the United States Department of Agriculture, but the new owner asked an extravagant price, whereupon the title was the tangible return. Very often a major league man- investigated and was found to lie in the Southern Paager will find a youngster whom he can keep, but, cific railroad, the orchard being on the right of way, after all, when he knows that there is no star among. The matter was referred to the railroad authorities and the bush league teams he would rather save money. It is they being glad to promote the fruit industry leased a defensive practice, as well as offensive, this obtain- the land to the United States government for an in-

In that orchard there are now seventy-four male from getting him. The real essence of the matter is trees and sixty-five female trees. All are twenty years nothing less than a never ceasing search for another old. From the seedlings have sprung up a dozen val-Christy Mathewson, another Tyrus Cobb or another uable new varieties, some of which are unequaled by Honus Wagner. If ten years of hunting reveals a any that we have imported from the best fig-growing star of this type and nothing else, the efforts of the regions of Asia Minor, North Africa and Europe. In addition the department has several thousand other seedlings produced from the finest varieties of figs in dollars and cents. The sin which can never be and these are being distributed to fig growers in difforgiven a manager is to let a good man go when he ferent parts of the west. The result will be that the might have been obtained even at high cost. The big United States will eventually not only raise all its became interested in the introduction of dates and is put at from 88 to 132 pounds, and an estimate of All the other clubs maintained expensive training prizes in star players are few enough and they cost own figs, but that it will have the best figs that can be produced. FRANK G. CARPENTER.

## National Pastime Trifle Expensive



O EXPENSE has been spared by the owners of the clubs in the two major leagues to make the season one of the greatest in the history of base ball, says the Chicago Tribune. Considerably more than \$500,000 has been expended in preparing for the season. The figure

parks and erection of new stands are taken into con-

By far the greatest expense borne by the owners has been the cost of the new players, obtained in an effort to strengthen the teams for the coming campaign. Each of the sixteen clubs in the blg leagues signed on an average of twenty young players, stars of the minor leagues. These players cost the owners about \$300,000 in cash, this money going to the coffers It is a singular thing that the fruit seems to thrive of the minor league owners who had the youngsters major league clubs after being tried out. The bonuses Mr. Swingle expects that the United States will which must be paid under these circumstances by the some day produce dates superior to any now grown, major leagues amount to nearly \$100,000. These youngsters consequently represent an investment of

Yet this does not begin to cover the total expenses

In order to get the most brilliant youngsters in the minor leagues every major league club keeps two or three salaried scouts traveling from one end of the country to the other, going over the "bush" leagues with a fine tooth comb in order that no "future great" may escape. Few there are, indeed, who are of base ball players. The expense of these scouts is probably amount to another \$100,000 for sixteen

In the neighborhood of \$700,000, therefore, it has cost the managers of the big leagues to look over last season. When all is said and done it seems to be spent more to satisfy their curiosity than anything else. If one or two players out of the twenty odd signed by a club are found worthy to warm the bench he is fortunate indeed. The rest are turned back to of the big leagues they are not considered to be worth much, and minor league owners are not prone to pay-

This immense sum is annually spent and small is ing of recruits. While one manager may not need a definite period for \$1 per acre per year. brilliant infielder, he likes to keep another manager manager have been rewarded beyond price, for the value of such players to a club can hardly be reckoned