POTENCY OF THE PEANUT regular articles of food, but are eaten at odd

No One Would Think the Humble Goober So Important.

A FACTOR IN TRADE AND COMMERCE

About Four Million Bushels Raised In This Country Every Year-The Most Nutritious and Cheapest of Foods.

But little is known of the peanut outside of localities in which it is grown, and even where it is most largely grown its possibilities are for the most part not at all realized, and it is not by any means made to yield the highest results it is capable of. Taking into account all its sources of value, the posnut ought to be one of the most profitable of the general farm crops in the south. The following facts about it are in the main condensed from a bulletin of the United States Department of A. Sculture prepared by R. B. Handy of the office of experiment stations.

The yearly production of peanuts in this country, according to the Boston Herald, is about 4,000,000 bushels of twenty-two pounds, the bulk of the crop being produced in Virginia, Georgia, Tennersee and North Carolina. These 4,000,000 bushels, while fully supplying the present demand of the United States, constitute but a small part of the peanut crop of the world, as the exportation from Africa and India in 1892 amounted to nearly 400,000,000 pounds, of which 222,000,-600 pounds went to Marseilles for conversion

largest part of the American crop is sold by street venders, but small amounts are used by confectioners, chocolate manufacturers, and for the manufacture of oil. Peanut oil is used for lubricating and soap making and is. nut oil is used for lubricating and soap making, and is a good substitute for olive oil for salads and other culinary purposes, and as a substitute for lard and cottolene and butter in cooking. The residue from oil making, known as "peanut cake," is a highly valued cattle food in the countries of Europe, and is also ground into fine flour and used as human food. It makes good soup, griddle cakes, muffins, etc., and is one of the most nutritive of foods. The vines, when dried, become a very nutritive hay, readily caten by steck, though requiring care in the feeding. teck, though requiring care in the feeding. lest it produce colic

The present uses of the peanut and its products are likely to be greatly extended and new channels of utility be found for it, as has been the case with cotton need. With better methods of tillage and a larger yield per acre the cost of production could be greatly les-sened. According to the eleventh census the average yield of peanuts in the United States in 1889 was 17.6 bushels per acre, the average in Virginia being about twenty, and in Tennesses thirty-two bushels per acre. This appears to be a very low average, especially as official and semi-official figures give fifty or

official and semi-official figures give fifty or sixty bushels as an average crop, and 100 bushels is not an uncommon yield.

While the peanut has been cultivated in the United States to a limited extent for a number of years, it is only since 1866 that the crop has become of primary importance in the eastern section of this country, which seems peculiarly adapted to its production. Between 1865 and 1870 the rapid spread of the culture of peanuts was phenomenal. Each the culture of peanuts was phenomenal. Each year doubled and at times increased three-fold its crop over that of the preceding year, so that this country from being a large three-fold. West African nuts was free to the preceding the property of West African nuts was free. importer of West African nuts was soon able to supply the domestic demand with the home-raised article

Virginia, North Carolina and Tennessee produce a large part of the peanut crop of the United States. Within the last few years this crop has ceased to be as profitable as heretofore. The method of culture—the annual planting of nuts on the same land, the lack of proper rotation of crops, the complete removal of all vegetation from the land, and the failure to replenish the soil by means of the failure to replenish the soil by means of fertilizers—has been a great factor in reducing the profits of the crop by reducing the ability of the land to produce such crops as were previously secured in that section, so that now, instead of an average of fifty bushels per acre, with frequent yields of over 100 bushels, the average in the peanut sections is not over twenty bushels, while the cost of cultivation has been but slightly reduced.

Without any expense, if he will take ordinary care in separating his marketable peas from the refuse stock before selling, which latter would be a valuable addition to the somewhat meager supply of winter fodder ordinarily provided by the farmers in the south for stock other than their work animals.

Although the experiment made with peanut meal and biscuits as food for the German army was not so successful as to induce the authorities to adopt it as a part of the rations, still, analysis has shown conclusively

in the dry material, take a high rank, and should be classed with such concentrated foods as sola beans, cotton seeds, etc. The vines are shown by analysis to be superior to timothy hay as a feeding stuff, and but slightly inferior to clover hay. The food value of the hay is, of course, higher the greater hulls, which are extensively used in some loabout equal to the poorer grades of hay.

The ground hulls are used to a considerable

extent as a coarse fodder in European countries. Peanut meal, the ground residue from oil extraction, is a valuable feeding stuff, highly appreciated, and extensively used in foreign countries. It contains, as the averages of over 2,000 analyses show, about 52 per cent of protein, 8 per cent of fat, and 27 per cent of carbohydrates, and is one of the most concentrated feeding stuffs with which we are familiar, ranking with cottonseed meal, seed meal, etc., and in some cases ahead of

As regards fertilizing constituents, the pealike other leguminous plants, is rich in aitrogen, and contains considerable amounts of phospheric acids and potash. The kernels are as rich in these consiltuents as the ker nels of cottonneed, and the vines are nearly as valuable as a fertilizer as those of cow

The Virginia running variety of the peanut being most widely known and most popular with the trade, may be taken as the typical American peanut. Its vines are large, with ipreading branches, growing flat on the ground and bearing pods over almost its entire length. The pods are large and white, weighing about twenty-two pounds to the bushel. The Virginia bunch variety grows erect and fruits near the taproot, but produces pods very closely resembling those above described.

closely resembling those above described. There are two varieties in Tennessee, the red and white, the white closely resembling the Virginia running variety and the red producing somewhat smaller pods with kernels saving a dark red skin. This variety matures earlier than the white, yields fewer pops, or imperfect pods, has a less spreading habit, and, on account of this difference in growth, is perhaps somewhat more easily cultivated. The North Carolina (or African) variety grown in the Wilmington section of the state has much smaller pods than those just scribed, weighing twenty-eight pounds to the

bushel, the kernels containing more oil than those of other varieties. The Spanish variety has a relatively small upright vine, forms small pode near the tap-root, and can be planted much closer together than any of the others, thus producing a very

heavy crop to the acre.

The north Louisians station found the Spanish a desirable variety, easily harvested, all of the peas adhering to the vine. It required a much shorter period to mature planted as late as July 1 matured a full crop in that latitude before frost. The pode filled out well, forming few if any pops.

The Georgia red nut, like the similar vari

ety in Tennessee, has medium-sized vines growing up from the ground and fruiting principally near the tap root, with three or four kernels to the pod.

These comprise all the varieties cultivated in this country. The peanut of India and Africa resembles the North Carolina variety in size, and is raised principally for the oil which is contained in its kernels.

In describing the uses of peanuts it is scarcely necessary to more than refer to the use to which fully three-fourths of the Ameri-can-raised crop is devoted. The nut is sorted in the factory into four grades, the first, second and third being sold to venders of the reasted peanut, either directly or through jobbers, while the fourth is sold to confectioners to be used in the making of "burnt almonds," peanut candy, and cheaper "burnt almonds," peannt candy, and cheaper grades of chocolates. The extent of the use of the peannt by the American people will be more fully appreciated when it is remembered that they use 4,000,000 bushels of nuts yearly (at a cost to the consumers of \$10,000,000), which do not form a part of the

for his hogs. The planter also makes use of the vine under the name of peanut hay, which is cerefully saved and fed to all kinds of live stock, furnishing the best and cheapout hay to be found in the peanut section.

Millions of bushels are being used in the
countries of the old world for the production of oil, in which the nuts are very rich. This oil is regarded as equal to olive oil and may be employed for every purpose to which that is applied. This oil forms from 30 to 50 per cent (by weight) of the shelled nut; it has en agreeable taste and smell, and is more limpid than olive oil, which it very much resembles. Examinations of peanut oil manufactured in Tennessee show it to be very similar in character to cottonseed of and olive oil. It is sweet, palatable, and clear, and, in fact, great quantities are used,

unknown to the consumer, instead of olive it is used medicinally in the place of clive oil, and it is also employed by manufacturers as a substitute for the latter in fulling cloth. As a lighting fluid it losts a long time, but does not give as clear a light as other burning oils. It is a durable, non-draine oils. In India, Europe, Brazil, and this country ing oils. It is a durable, non-drying oil of a light straw color, and it is for its oil that the nut is imported into Europe, many gallons being used in the manufacture of soap as a lubricant in machine shops.

The most important secondary product of peanut oil manufacture is the oil cake or meal which remains after the oil bas been extracted by pressure. This mile for

extracted by pressure. This sells for from \$30 to \$33 per ten in Germany, where it is used for feeding cattle and sheep. After the oil which can be expressed is secured there still remains considerable fatty matter in the cake, which, together with its other contents, makes a most valuable sellent, end tents, makes a most valuable animal food.
Dr. W. R. Robertson of England, in his experiment with peanut cake as a food for horses at the India farm, of which he was manager found that found that six pounds of cake per day was sufficient to keep a horse in good working condition. In reference to its use as feed for other animals he says:

"I have used the cake very extensively in feeding working cattle. An allowance of four pounds, per head, per day, with forage, keeps the animals in perfect health and condition. For fattening cattle I do not know of any better food, in regard alike to its feed-ing value and to the superior quality of the

'As a food for dairy cows it is admirable, "As a food for dairy cows it is admirable, both in increasing the yield of milk and in improving its quality. The butter of cows so fed is firmer and keeps much better than that of cows fed on any of the ordinary oil cake. A daily allowance of four to six pounds of the cake, given in the form of paste, and mixed with two or three pounds of wheat bran constitutes a perfect food for paste, and bixed with two or three pounds of wheat bran, constitutes a perfect food for milch cows. I have had cows so fed for several years, yielding well and breeding regularly. For sheep there is no better food than earthnut cake, but for these animals I found best to give the cake dry and broken into mall pieces. I had a large flock fed on the ake for several years, and power fed on the cake for several years, and never knew any bad results attending its use. The ewes so fed bred regularly, milked well, and reared excellent lambs, while the mutton of these cake-fed sheep was of superior quality. "Many experiments have proved the value of the cake as a feed for rive.

of the cake as a feed for pigs. For these animals it was usually made into a thin gruel and given mixed with bran. The same preparations, but in not quite so thin a condition, constitutes a superior food for fattening poultry. The flesh of poultry fatted on the cake a white fine and of superior quality.

is white, fine, and of superior quality."

From the above, and as a result of the various analyses, it can be concluded with certainty that the peanut cake is an excellent cattle food, and can be made extremely valuable if judiciously mixed with other foods less rich in oil and nitrogenous constituents.

A grade of food for animals known as "nee." A grade of food for animals known as "pea-nut meal" is made by grinding the buils, immature peanuts, and those of inferior grades, such as pops and saps, and a certain portion of sound nuts mixed with other ingredients. This is carefully prepared, having all the dirt and foreign matter eliminated. The fibre is also, to a large extent, extracted, as well as the fluffy matter, and the meal is probably in a favorable condition for stock. The composition compares favorably with that of many foods now on the market.

There is not him in this presentation which

There is nothing in this preparation which cannot be secured by the farmer himself without any expense, if he will take ordinary

duced.

As regards food value, peanut kernels, with an average of 29 per cent of protein, 49 per and as compared with other well known cent of fat, and 14 per cent of carbohydrates forms of vegetable and animal food it has a high value.

During the year between 1861 and 1865 peanut oil was manufactured by at least four mills in the southern states, and used as a lubricant by railroads and locomotives.

by wool and cotton spinners for their spin-dles, and by housewives instead of lard for harvesting. The hulls also appear to possess much richer in valuable food constituents (protein, fat and carbohydrates) than octa-hulls, which much richer in valuable food constituents (protein, fat and carbohydrates) than cotton hulls, which are extensively used in some longular those who used it as a palatable and nutritious food for man. The following is a comparison made by Prof. Konig, based on the about equal to the poorer grades of have

	units per pound.	1,000 unit
Skim milk	98.2	10.4
Full milk	870.0 145.5	11.0
Hacon	1.975.7	11.5
Veal	525.9	23.2
Beef	530.9	26.0
Butter		20.4
Peas Potatoes	778.6	4.2
Rye flour		6.0
Rice	534.6	10.0
Peanut meal	1.425.0	3.0

cheapest of this whole list of food materials. Heading Off a Rise. Chicago R cord: Railway Manager (to sub-ord'nate)—"Grigson, I sent a confidential man out the other day to see what old Huddleston would take for that straw stack he has built near our tracks about fourteen miles out of town. Has he reported yet?"

Grigson-"Yes, sir. He says Huddleston wants \$75 for it, but it's not worth more than \$50." Railway Manager-"Tell him to close the bargain for \$75 at once. It will cost us a hundred if it burns up."

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Put up in 50 cent and \$1.00 sizes. The small size may be snough to cure your cough or help your baby.

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