

POTENCY OF THE PEANUT

No One Would Think the Humble Gopher 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.

That 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 peanut ought to be one of the most profitable of the general farm crops in the south.

The following facts about it are in the manuscript of a bulletin of the United States Department of Agriculture 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, Tennessee and North Carolina.

The largest part of the American crop is sold by direct vendors, but small amounts are sold by confectioners, chocolate manufacturers, and for the manufacture of oil. Peanut 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 cod-liver oil in cooking. The roasted nut is known as "peanut cake," and is highly valued as a food in the countries of Europe, and is also ground into fine flour and used as a human food. It makes excellent cakes, muffins, etc., and is one of the most nutritious of foods. The vines, when dried, become a very valuable hay, readily eaten by stock, 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 are being opened. The case with cotton seed. With better methods of tillage and a larger yield per acre the cost of production is being reduced. According to the census the average yield of peanuts in the United States in 1893 was 17.5 bushels per acre, the average in Virginia being about twenty, and in Tennessee thirty-two bushels per acre. This appears to be a very low average, especially if official and semi-official figures give fifty or sixty bushels to an acre, or more. 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 an important factor in the eastern section of this country, which seems peculiarly adapted to its production. Between 1865 and 1893 the area under the culture of peanuts was phenomenal, the year doubled and at times increased threefold. The crop over that of the preceding year, so that this crop is being a large importer of West African nuts, and is unable 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 become an important factor in the southern section of this country, which seems peculiarly adapted to its production. Between 1865 and 1893 the area under the culture of peanuts was phenomenal, the year doubled and at times increased threefold. The crop over that of the preceding year, so that this crop is being a large importer of West African nuts, and is unable to supply the domestic demand with the home-raised article.

As regards food value, peanut kernels, with an average of 29 per cent of fat, 12 per cent of protein, and 49 per cent of carbohydrates in the dry material, take a high rank, and should be classed with such concentrated foods as wheat, corn, and other cereals. 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, the greater the percentage of nuts left on the vines in harvesting. The hulls also appear to possess considerable value as a feeding stuff, being much richer in value than the kernels (protein, fat and carbohydrates) than the hulls, which are extensively used in some localities in the south as a coarse fodder, and about 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 highly appreciated, and extensively used in foreign countries. It contains, as the average of over 2,000 analyses show, about 52 per cent of protein, 14 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, linseed meal, etc., and in some cases ahead of them.

As regards fertilizing constituents, the peanut, like other leguminous plants, is rich in nitrogen, and contains considerable amounts of phosphoric acids and potash. The kernels are rich in these constituents as the kernels of cottonseed, and the vines are nearly as valuable as a fertilizer as those of cow-peas.

regular articles of food, but are eaten at odd times. The planter is used by a fattener for his hogs. The planter also makes use of the vine under the name of peanut hay, which is carefully saved and used as a kind of live stock, furnishing the best and cheapest 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 used for every purpose to which that is applied. This oil is formed from 39 to 50 per cent (by weight) of the shelled nut; it has an agreeable taste and smell, and is more simple 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 oil and olive oil. It is sweet, palatable, and clear, and, in fact, great quantities are used, unknown to the consumer, instead of olive oil.

In India, Europe, Brazil, and this country it is used medicinally in the place of olive oil, and it is also employed by manufacturers as a substitute for the latter in falling cloth. As a lighting fluid it burns long, bright, and does not give as clear a light as other burning oils. It is a durable, non-drying oil that is light in color, and is for its oil that the nut is important. In Europe many of the oils being used in the manufacture of soap as a lubricant in machine shops. The most important secondary product of peanut oil manufacture is the cake, which remains after the oil has been extracted by pressure. This cake is sold for from \$20 to \$25 per ton, and is used for feeding cattle and sheep. After the oil which can be expressed is secured the cake remains considerable fatty matter in it, which, together with other constituents, makes a most valuable animal food. Dr. W. R. Robertson of England, in his experiments with this cake, which he used as horse food in the India farm, found that six pounds of cake per day was sufficient to keep a horse in good working condition, in preference 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 day, with good forage, keeps the animals in perfect health and condition. For fattening cattle I do not know of any feed, in regard alike to its feeding value and to the superior quality of the beef produced."

"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. I have had an allowance of four to six pounds of the cake, given in the form of paste, and mixed with two or three pounds of lucerne, and this has constituted a perfect food for milk cows. I have had cows so fed for several years, yielding well and breeding regularly, for which there is no better food than this cake. In several instances I found it best to give the cake dry and broken into small pieces. I had a large flock of fowls on this cake, and they were very healthy and laid well. I had several years, and never knew any of the fowls to be sick. The same cake had been regularly, milked well, and reared excellent lambs, while the mutton of these cakes was of superior quality. "Many experiments have proved the value of the cake as a feed for pigs. For this purpose it was usually made into a thin gruel and given mixed with other feeds. The same cake, but in not quite so thin a condition, constitutes a superior food for fattening poultry. It is also a good feed for the same birds. From the above, and as a result of the various analyses, it can be concluded with certainty that the peanut cake is an excellent food, and can be made extremely valuable if judiciously mixed with other feeds less rich in fat and protein constituents. A grade of food for animals known as "peanut meal" is made by grinding the hulls, immature peanuts, and those of inferior grades, such as pods and seeds, and a certain part of sound nuts mixed with other ingredients. This is carefully prepared, having all the dirt and refuse removed, and the farmer himself without any expense, if he will take the care in separating his marketable peas from the refuse stock before selling, which latter will be sold at a higher price. The whole what meager supply of winter fodder ordinarily provided by the farmers in the south for stock other than their own animals. Although the experiment made with peanut meal and biscuits as food for the German nut was not so successful as to induce the adoption of this food as a part of their rations, still, analysis has shown conclusively that it is a most nourishing food for man, and as compared with other well known 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, and for wood and cotton spinners for their spinning, and by housewives for the purpose of shortening in bread and pastry. The cake was eaten by many living in the vicinity of the mills, and was highly spoken of by those who used it as a palatable and nutritious food for man. The following is a comparison made by Prof. König, based on the analysis of the following quantities of the principal foods reduced to "units of nutrition":

Table with 3 columns: Nutrient, Peanut meal, and other food items. Rows include Fat, Protein, Carbohydrates, etc.

Heading Off a Rise. Chicago Herald: Rayman Manager to superintendent (Grison), I send you a card out the other day to see what old Huddleston would take for that straw stack he has pitched near our tracks, about three miles out of town. He has reported you, H. Grison—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."

Wood won't burn unless air-oxygen is present. The food taken into the body must be united with oxygen before it can be consumed and give heat to keep the body warm. Scott's Emulsion of Cod-liver Oil, with hypophosphites, is one of the best fuel-foods. The cod-liver oil obtains its oxygen from the air and heat is produced. It warms, nourishes, invigorates, gives good blood, and fortifies against the piercing winds of fall and winter. The hypophosphites tone up the nervous system and improve digestion. Scott's Emulsion prevents colds, coughs, consumption and general debility.

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