Legumes Make Up a Necessary Link in the Chain of Our Growth and Well Being



SEVENTY-EIGHTH YEAR

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PRICE FIVE CENTS



Branching Variety of Sweet Corn Promises Much in This Field

Sweet corn is a typically American vegetable, one of the greatest delicacies of the garden. Corn breeders have worked fro years to develop field corn, the great farm crop, while the table delicacy. sweet corn, stood still and new varieties came slowly. It is a different story now, and now sweet corns are offered each year.

A new branching variety introduced this year seems to be what scientists would call a mutant, the unexplained appearance of a new type, which may greatly increase the yield of the average corn plantation. On the new type of breeders have worked for years to a plant and some times as high as six, while the older types do not average as much as two good ears to a stalk.

This corn appeared in the garden of F. C. Kevitt of Athenia, N. J., several years ago. The seed was saved and planted and the trait of branching at the ground into several stalks, each of which bore ears of corn, reproduced itself. It required several years to "true" the stock so it would reproduce the type from seed. The plants are said to average 6 1/2 feet tall, the ears to average 7 inches in length and the quality is said to be of the best.

Golden bantam introduced a new era in sweet corn and it has been the most popular home garden and table corn ever grown. It has been the subject of experiment among plant breeders for years and there are a number of hybrids with older and larger

Asters are the queens of the Chief of these is what is known fall annuals, the greatest material as the yellows, the blooms never of their season both for cutting developing their true colors, but and garden decoration. There is remaining a greenish yellow, desuch a wide variety in this useful formed wad. plant that it is sometimes diffi- This trouble, it is now known.

FALL ANNUALS: A WIDE VARIETY

cult to make a selection. The is carried by certain insects. Root



two general types, the branching aphis give more trouble. A dress and the ostrich plume, are the ing of hardwood ashes when the most desirable for the main crop of asters. The late-branching types give a great crop of flowers with good stems showing an inclination to an incurved shape. The ostrich plume section, which includes the Crego, has curled and twisted ness of bloom desired. This is petals inclined more to out-curving, following, in a general way, the tendency in chrysanthemums, of which they have become rivals is a matter of selection from catin size and beauty.

The Giant of California and American Beauty type are noted for the size of the flowers and larity during the last few seasons. resulting largely from the declin- ful for salads. The Chinese and the length of the stems which the Sunshine asters being the ing yields caused by mosaic and Southern Giant are large-leaved valuable. Asters need rich soil, tiful and graceful in soft colorings a liberal supply of moisture and with different colored centers. good cultivation. But even with these conditions, they have de- single strains are good. This type veloped several plagues that have is one of the most artistic for cutdiscouraged many gardeners, ting.

asters are set out has proved one of the best means of starting them on their way to a healthy career. Asters may be sown either indoors, in frames, or in the open ground, all depending on the earlialso regulated by whatever the seed planted is of an early flowering or late flowering type. This alogues.

States department of agriculture has organized an expedition under the leadership of Dr. E. W. Brandes, sugar plant specialist, which will use an airplane in searching the unexplored wilds of the island for disease-resistant cane varieties that may prove valuable to the industry in Louisiana and other parts of the south.

Doctor Brandes was scheduled to sail from San Francisco April 12. accompanied by Dr. Jakob Jesweit, who was formerly chief of sugar plant breeding work in Java and now of the University of Wageningen, Holland: and Richard K. Peck, who will pilot the plane. Peck acted as pilot for the Stirling expedition to Dutch New Guinea under the Smithsonian Institution in 1926-27. These men will be joined at Honolulu by S. E. Pemberton, entomologist of the Hawaiian Sugar Plant association experiment station, and proceed to Port Moresby, the base of the expedition on the southeast coast of New Guinea.

The plane, a Fairchild cabin type, will be furnished by B. G. Dahlberg, president of the Celotex company, makers of synthetic lumber from sugar cane bagasse, who is also interested in sugar cane plantations in Florida and Louislana. Equipped with pontoons for landing on rivers, lakes or other bodies of water, the plane will make possible the exploration of the interior portions of the island otherwise inaccessible or difficult to reach. The study is expected to take from six to eight months. The Australian government is copossible and successful.

pedition has been under consideration for the past six years or more. about until recently. Depression in cooked greens.

The P. O. J. Canes

cane in the south is by the use of

varieties that are resistant or tol-

erant of these diseases. Some

favorable results have already been

accomplished by the introduction

of several improved varieties de-

veloped at the Proefstation Oost

Java, the experiment station main-

tained by private planter in Java.

These varieties have given such

satisfactory performance in tests

during the past six years that spe-

the work. More than 170,000

acres were planted in Louisiana

last fall with varieties recently in-

"We believe," said Doctor

Brandes, "that the best solution

of the problem depends on sticking

until even better ones are devel-

"In New Guinea, where we be-

troduced from Java.



They Are Good for What Ails You, and They Are Good in Every Way

"Greens" furnished an old-fashioned dish because they were good for what ailed you whether you liked them or not along with the old-fashioned spring tonics. sulphur and molasses and other hygienic horrors of a bygone age. Their health-giving value is now recognized, but on a sounder scientific basis, and they are popular because it is not a duty to eat them as it was formerly. There is opportunity to appreciate their flavor without prejudice on the ground of medicinal diet.

Spinach, the carliest of all greens, is a brief crop in the home garden. Other greens are needed to take its place. The standby is the beet, both the root types and the swiss chard, which doesn't form a large root but runs heavily to foliage and produces greens all summer. To some the chard is a rather insipid vegetable. For these mustard green are a real these mustard greens are a real old-fashioned, when it was customary to cut down the mustard crop of weeds in the fields and gardens by pulling the young plants for greens. The garden varieties are so superior as hardly to operating to make the expedition be recognized in the same class with the weeds, although the lat-While the idea of such an ex- ter has excellent flavor when cooked.

The garden mustards are used it has not been possible to bring it both as salads, green, and as There are two New anemone flowered and sin- the sugar cane industry of Louisi- types, the large leaved useful for gle types have gained great popu- ana and other parts of the south cooking and the small leaved usegiving liberal crops of leaves. The White London is a small, smooth-The most feasible method of im- leaved sort which grows quickly Any of the new large-flowered proving the production of sugar and gives pungency to salads. The Fordhook Fancy has become the most desirable of the salad types because of its curled and fringed leaves, being as ornamental as parsley and attractive for garnishing as well as for salads. The mustards will grow in any ordinary good garden soil. A packet will furnish an ample supply. It is best to plant a short row of each type, one for salads and one for greens. Thin the plants to three inches to give them a chance to develop. The fancy curled should have six inches to reach their best development. Mustards are seldom grown in the home garden, but they are well worth a try, and once tried, they are likely to become fixtures.

types, the object being to take the sugary sweetness of Golden Bantam into a larger ear.

The work of plant breeders has taken a different tack recently with Golden Bantam and that is to isolate earlier and better strains. The earliest strains have been varieties of white and black corn, the squaw corn as it was formerly known. The early trains of yellow corn did not come so easily but they have now been secured in Golden Bantam.

As corn has been hybridizing through the processes of nature for many years, plant breeders find it necessary to inbreed or self-fertilize over a period of from five to seven years to unscramble 'pollen of the same plant, the seed the family relationships and ripened and planted and the protraits. This has been done until at last an early strain of Golden would breed true from seed were Bantan maturing eleven days earlier than the earliest known isolated.

Corn breeding involves a rather difficult task, as the quantity of stray pollen falling upon the silks, tribe,

as it is the contact of pollen nad silk that causes a kernel to form on the cob, each strand of the silk representing a kernel.

Paper bags were used to protect the plants employed in the breeding experiment and the silks were fertilized by hand from the cess continued until strains that established.

Corn feasts were celebrated strains and three weeks earlier events among the Indians in the press service of the United States than the latest strains has been early history of the country, and department of agriculture, under particularly in the history of the the heading. "Sugar Cane Special- to the search for tolerant varieties Mandan Indians of North Dakota. ists Will Explore New Guinea for pollen shed by the tassels makes Verendrye. in 1838 describes a out the following:) it necessary to cover both tassel corn feast by these Indians given and silk completely to prevent in his honor when he visited the that New Guinea is the native know that varieties arise by cros-

they offer for cutting. Those with finest example of the anemone root diseases, has given impetus to sorts excellent for cooking and late-branching types are especially flowered type and unusually beau- the project.



The United States Is Now cialists have been encouraged in Wisely Sending Scientists to New Guinea

(Under date of April 4, the The French explorer, M. de la Disease-Resistant Varieties," sent oped.

> Having come to the conclusion home of sugar cane, the United

lieve sugar cane is indigenous, we

Some of the miniature tomatoes will prove popular with the children as well as being fine for preserves. Red plum, red cherry, red currant and their yellow varieties are all good.

(Continued on page 8.)

LADINO CLOVER STARTING IN BOOM IS THIS DISTRICT