Find Corn Adapted to Resist Drought

Federal and State Experts **Report Good Results** of Experiments.

(Prepared by the United States Department of Agriculture.)-WNU Service

Last summer's drought delayed the corn-breeding programs carried on jointly by the United States Department of Agriculture and several of the state experiment stations, from one to three years, but it enabled those in charge of the work to compare various strains of corn under drought con ditions and to bring to light unexpected information.

The bureau of plant industry reports that one or more strains of corn at the various stations withstood the lack of moisture and the temperatures of 106 degrees Fahrenheit and upward better than other strains. In some cases resistance was not great enough to be of value; other strains, however, silked and tasseled with little or no apparent damage.

Incommoded by Drought.

Dark Green Lancaster, a self-fertilized strain developed at Ames, Iowa, had shown much promise in favorable corn years. Last summer the strain demonstrated its ability to thrive upder drought conditions as well. About 3,000 plants of crosses having Dark Green Lancaster as one parent were Included in the tests at Ames. None of these plants had any of the top leaves burned and only 12.6 per cent had burned tassels.

In contrast, 37 per cent of the plants of Krug, the best of 12 commercial varieties in the test, had burned tassels and 13.4 per cent had burned top leaves. The 10 crosses of Dark Green Lancaster averaged a yield of 53.5 bushels per acre, in comparison with 37.5 bushels for Krug.

Promise for the Future.

Many other characters besides yield and drought resistance must be combined to produce a satisfactory strain of corn for practical purposes. This requires time for its accomplishment. The important point at present is that apparent drought resistance has been found in self-fertilized strains of corn which may be expected to breed true and thereby provide a hereditary source for this characteristic for use in future breeding operations.

Scatter Manure for Benefit of Pastures

On farms where there is sufficient stable manure to top-dress pastures, there is some doubt as to best methods of using it to the benefit of pasture, without being in the way. The manure for this purpose should be very fine. C. W. Gay, animal husbandman, Ohio State university, gives

Advocates Wheat as Substitute for Corn

Expert Advises Its Use in Rations of Hogs.

Proving an excellent substitute for corn in the hog ration, wheat may be fed with profit as long as its price stays near its present level and does not cost more than 10 to 12 cents more per bushel than corn, states J. W. Wuichet, specialist at Ohio State university.

As 1 feed for hogs, wheat is worth about 6 to 8 per cent more than the same weight of shelled corn and may be substituted entirely for corn in the ration, according to Wuichet. In fact, some tests show that greater returns are obtained by feeding wheat alone with some good protein supplement than by mixing large amounts of corn in the ration.

To get the most out of wheat, Wuichet believes that it is best ground or crushed, preferably the latter, as grinding fine does not improve the digestibility nd only adds to the cost. Soaking wheat improves it about 1 per cent, but grinding adds about 16 per cent to its value.

As wheat contains more protein than does corn, less protein is necessary to balance it. Corn, he says, requires about 10 per cent tankage to balance it and wheat requires about 8 per cent. So by feeding wheat good results may be obtained although less tankage and other high protein feeds are used.

No More Useful Feed Than Silage on Farm

Silage is one of the most useful feeds that is produced on the average farm. The entire crop is preserved with much less cost than from any other method in handling. Good clean sllage that is free from mold is greatly relished by all classes of live stock, With corn silage and alfalfa hay as the basal ration, supplemented with linseed meal and corn, experiments at the Michigan State college experiment station, as well as at other experiment stations, have shown that considerable grain may be saved by inducing the calves to cut more silage and hay in the early part of the feeding period. When starting on feed, calves weighing 375 to 400 pounds will gain practically as fast for the first two months with about six pounds of grain and all the silage they care to eat as if they are eating eight to ten pounds of grain and considerably less silage. In fact, calves fed six and one-half to seven months gained almost as fast and were practically as fat when fed approximately two-thirds as much corn as other calves that ate from a self-feeder. The selling price was the same two

NEW DEVICE BOON are already familiar. The letters are composed of dots and lines. A FOR THE SIGHTLESS capital T has a long line across the

converts printed words into large of a continuous letter.

THE CENTRE REPORTER, CENTRE HALL. PA.

raised lines on aluminum foll so that buind persons may read by touch was demonstrated by the inventor, erence and for instruction purposes, Robert E. Naumburg of Cambridge, or they may be erased by passing Mass. The new printing visagraph, type. The outstanding advantage of desk .-- Boston Transcript, the product of the printing visagraph

over the old embossed types is that it will enable the blind to have access to books printed in ink. This will increase their present range of reading about 1,000 times. The New York public library contains about 3,000 books in Braille and more than 3,000,000 books printed in ink.

The visagraph, Mr. Naumburg ex plained, is especially useful to the blind student at school, college or in post-graduate work, and to the blind professional person, whether a doctor, lawyer, writer, teacher, or engineer. It is very helpful to the student of foreign birth, as hardly any literature is available in foreign languages in embossed type.

Mr. Naumburg was assisted in the demonstration by Miss Edith Milner, a student at Perkins Institute for the Blind at Watertown, Mass. After less than one month of practice on the visagraph, she was able to read from a book printed in ink with surprising fluency. A month ago she did not know the shapes of the alphabet printed in ink, having always read Braille, which does not resemble the printed alphabet.

Adults who lose their sight, Mr. Naumburg explained, will welcome the printing visagraph, which enables them to visualize with their finger tips the letters whose shapes they will remember.

The printed letters are magnified in height and width, so that they are about the size of Braille char- tive unimportance, our troubles won't acters, with which most of the blind worry us so much,

top, and a row of dots forming the vertical line. These dots are close A newly perfected device which enough together to give the feeling The impressions on the aluminum roll may be preserved for future refthe aluminum foil through a pair of

as it is called, rapidly produces en- rollers, like a clothes wringer. The larged, embossed letters on a wide aluminum may then be used over roll of thin aluminum foil. These let- again. The roll of aluminum resemters may be felt by the finger of the bles, in size and shape, the music blind person in the same way that roll of a planola. The printing visahe reads Braille or other embossed graph is about the size of an office

Electric Eye Aids Blind

"Electric eyes now are being used to "see" for blind persons in guiding them about their homes by giving them a sense of direction as they move about. The electric eye, or photoelectric cell, is made up like a flashlight with a small buzzer connected to its battery, according to Popular Mechanics Magazine. Convenient electric lights are then placed about passages and hallways, parlcularly at turns,

The blind person turns the elecric eye about much as a person having his sight would direct a flashlight. When the device points to a light source, contact is made and the buzzer sounds. As long as the buzzer is sounding the blind user knows he 14 wives, and he was only twentyis on the right path,

Sometimes Seems So

clerk.

"The lawyers make some glowing pleas for these prisoners." "To hear the orations, anyone of them has led a better life than I have," commented the weary court

gram. "'The born leaders of men,' he said, 'are women.' ' The Blame

"Poets are born and not made." Village Built for Bombers

"Yes, blame it on the parents! They get the blame for everything To provide target practice for airelse." planes in a recent aviation meet in

Italy an elaborate reproduction of an If we keep in mind our compara-Arabian village was built in miniature. The model was raked with aerial bombs shot from airplanes, fly- can Magazine,

ing low. Big bombers and small scout machines were used in the attack, and the maneuvers were carried out in strict accordance with the latest Italian military development. The speed in which the village was completely destroyed was declared to be an indication of the effective offensive of the present airplane in waging war.

Thank Goodness

The mayor had just laid the foundation stone of a new wing for the hospital, and the spectators awaited his speech.

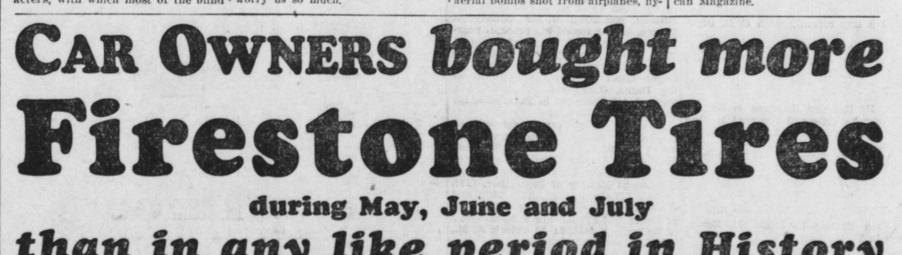
"What can I do, Mary?" whispered the mayor to his wife. "I've laid the stone on top of it."

Worth Pondering Over

If the devil car have first chance at our children it doesn't make a particle of difference to him how high we build our church steeples. -Capper's Weekly.

No Age Limit

There doesn't seem to be any age limit to antique collectors .- Ameri-





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"In Russia the unrestricted divorce law is abused," he said. "Its abusers don't think so, though." "I lunched one day in Moscow with

a commissar who had already had nine years old.

"He said it was to his wives that he owed his success, so naturally the more wives the merrier. He said without his wives' counsel and support he'd still have been a s'ioemaker's apprentice. "Then he wourd up with an epi

the following sensible advice:

"Top-dress pastures in fall or early spring. The manure of one kind of stock should not be put on sod to be grazed by that same kind of stock. Germs of tuberculosis and abortion disease may infect the manure of cattle and spread to stock on pasture. In the same way sheep and hogs may become infested with parasites if grazed on grass top-dressed with sheep or hog manure. But the parasites of sheep do not infest hogs and vice versa. Cattle manure had best go on corn ground, or other ground to be plowed, while cattle pastures may be top-dressed from either the horse, hog or sheep barns."

An old plan which still holds good, is to break up and scatter the large pieces of dry' cow manure from the places where dropped. We knew one farmer who, in walking about the fields where cows had run, always carried a stick with a natural crook at the end, making a weapon something like a golf club, which with one blow scattered these dried clumps where they would do good instead of spoiling the pasture grass where they lay.

Save Fruit Trees From Insects and Diseases

Whether they bear or not, fruit trees should be sprayed this year to protect the foliage from insects and diseases, according to W. H. Alderman, chief in horticulture at Minnesota University farm. This is necessary to insure having the trees in proper condition for next year's production.

Mr. Alderman's statement is prompted by indications that some varieties of plums and certain orchards located on low ground have suffered from frost. In such cases, orchardists may be inclined to regard spraying as unnecessary for the balance of the season.

On the contrary, Mr. Alderman points out, healthy foliage is essential for the development of fruit buds which produce the next year's crop, as the leaves manufacture the plant food material which is transferred back to the wood and stored there. He ad-vises at least three sprays distributed throughout the season,

Beef Rations

Shelled corn or ground corn and cob meal are preferred in feeding beef calves to ear corn or even broken ears by L. P. McCann, noted extension specialist in animal husbandry. Oats, barley and a limited amount of wheat may be used with corn for fattening steers but should be ground. Oats are too bulky because of the hulls to use in large quantities but may comprise a third of the ration, while barley or oats may be used to the extent of one-half the grain ration.

Lack of Protein Cause of Rooting by Pigs

years out of three.

Pigs fed a ration deficient in pro tein rooted more and more as the length of the feeding period extended at the Ohio experiment station. Pigs which had a good ration with plenty of protein and salt rooted very little, according to W. L. Robinson, reporting his year's research work,

Fish meal again proved to be the most economical protein supplement for corn fed to growing pigs. Minerals added 18 per cent gain when fed with corn alone and reduced the feed required 13 per cent. No protein supplement was used.

Ground oats were more productive than whole oats with tankage and alfalfa. A ration of ground corn, oats, tankage and minerals proved to be more profitable than the corn-oat combination. Cost of production was \$6.92 a hundred. Hulling oats was not profitable for pigs.

Ordinary cottonseed meal fed to pigs with the regular corn ration did not do well. Some died after the 49th day. Special cottonseed meal furnished the pigs a good protein supplement and on which they did well.

O. P. V. Suitable for

Either Silage or Hay At one of the Dominion experimental stations in Ontario an experiment has been conducted for a period of years to determine the best time for sowing a mixture of oats, peas and vetch (O.F.V.) for silage or hay. The mixture used was two bushels of oats, one bushel of peas and one-half bushel of vetch per acre. The seed was sown on six different dates each year, at intervals of seven days. The average date of the first seeding over a six-year period was May 23. The average date of the last seeding, June 27.

The experiments showed that good yields may be grown either for silage or hay; that the earlier seedings produce the better yields; yet very good results may be obtained even from seeding later in the summer. Hence, the crop may be grown even on lowlying land, slow to dry up in the spring.

Around the Farm

Nearly half the world's population uses soy beans daily as a protein food. . . .

The amount of oats that can be fed hogs, sheep and chickens is limited. Oats has a place in every laying ration.

. .

Government scientists are experimenting with wheat and oat straw in an endeavor to make use of these farm products in the manufacture of high quality paper.

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More Thickness, Inches	.658	.605	.598	.561	Chevrolet	
More Non-Skid Depth, inches	.261	.250	.250	.234	Ford	
More Plies Under Tread .	• •	5	•	5	Ford	
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