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Oh, Doctor!
A distinguished surgeon was recently dazed recently while making his rounds through a hospital by a wounded soldier who inquired curiously: "Say, doctor, when one doctor doctors another doctor, does the doctor doing the doctoring doctor the other doctor like the doctor wants to be doctor or does the doctor doing the doctoring doctor the other doctor like the doctor doing the doctoring wants to be doctor him?"—Safety Bulletin.

Highly Cultured Indians.
It is manifest that in prehistoric times parts of Arizona, Utah, Colorado and New Mexico were inhabited by tribes of Indians representing a culture unlike any to be found elsewhere in North America. Their skill in agriculture and experience as builders of elaborate structures of dressed stone—such structures as existed nowhere else north of Mexico—would alone suffice to set them apart as a people wholly distinct.

Deer Becomes Domesticated.
The efficient protection given them by the state game commission and the United States forest service in their efforts to preserve the deer, elk, antelope and mountain sheep that roam the Colorado forests has resulted in large herds. It is no unusual sight in the forests bordering the Uncompahgre national forest to see many of these wild animals grazing in the village streets.

Water's Passage Through Wood.
Water passes through real wood when ascending a tree, largely through the last season's growth. With deciduous trees the great demand for water comes in the spring when the young leaves put forth. After that upward sap movement is much less.

Don't Seem Right, Some Way.
"This law is a queer business." "How so?" "They swear a man to tell the truth." "What then?" "That every time he shows signs of doing it, some lawyer objects."—Louisville Courier-Journal.

BETTER SEED BEANS NEED OF MICHIGAN

M. A. C. Experiment Station Reports on Results of Five Years' Work.

RENOVATION IS BIG HELP

Michigan Beans, Shipped West, Grow and Bring Big Crop, Demonstrated Solution.

By J. H. MUNCIE,
Plant Pathologist, Michigan Agricultural College.

East Lansing, Mich.—As usual large crops of beans and other legumes have already been secured in the legume-growing centers of the state, among which may be mentioned Tuscola county; Saginaw, Huron, Gratiot, Isabella and a number of other districts. It is a fact, however, that despite Michigan's pre-eminence as a producer of dry edible beans, the raising of this crop has been gravely interfered with by the spread of bean diseases within the state. More than anything else (unless it be a satisfactory adjustment of the price question) Michigan growers are feeling the need for measures by which these annually recurring epidemics of blight and anthracnose can be controlled. When we remember that the average yield of beans per acre within the state in 1905 was 15 bushels, and that in 1914 it was only 11.5, and that in 1917 it was still less, the imperative need of remedial measures of some kind can readily be comprehended. The one consolation which Michigan men who have tackled this bean disease problem have been able to see in the situation has been the fact that other states where beans have been grown are in almost as bad a way. But undoubtedly, Michigan is feeling the damage most, for in the ten years from 1905 to 1915, we produced 70 per cent of the nation's bean crop. During the last five years the experiment station of the college has been experimenting and studying these diseases incessantly with the result that far that the control of bean diseases does not seem much nearer than it was when the work was begun.

Still the idea should not be entertained that the work was fruitless, for while it was found that chemicals do not seem to do much good when applied to the seed, a number of methods of control which may be successfully made use of in the future were developed. For one thing, progress in the breeding of a disease-resistant variety is being made by Prof. F. H. Sprague of the farm crops experiment station; for another thing it has been demonstrated that such practices as selecting of disease-free pods in the field from vigorous plants, and the planting of only "sanitized" clean seed help materially to reduce losses.

But more promising than any of these was the proving that if Michigan beans are shipped to California or Idaho and grown and the seed brought back here, a practically disease-free crop can be raised.

What the experiment station did was send several consignments of beans to California and Idaho, where they were grown under contract by a number of selected western farmers. The seed from this crop was then brought back; these beans germinated well, and the seedlings came up strongly and evenly, proving an excellent stand of beans. The California-grown seed ripened about two weeks earlier than the crops from the Michigan and Idaho seed. The yield was about fourteen bushels to the acre.

Altogether the growing of Michigan beans for one, or even two seasons in some western state where the climatic conditions are extremely unfavorable to the diseases present the best means of combating bean diseases in this state, at least until a disease-resistant variety of beans can be obtained.

The growing of beans in Idaho is rendered more or less uncertain by the early frosts in California; beans might be much more certain than in Idaho. Yet, with careful selection of seed for sending West and the proper location, planting and cultivation of the crop, the results should be good. Beans from growing beans in lower California.

This method of obtaining seed on a large scale should recommend itself to both growers and jobbers. With comparatively small expenditures the growers and jobbers' associations could establish warehouses in a desirable locality in either Idaho or California, and grow under contract a large crop in Michigan. Of course this method would be impractical for small growers, though local growers' associations could profitably take up the growing of seed for their own members.

The results of the experiments as a whole were as follows:
Both bean anthracnose and blight are carried to the field in or on the seed, and affect all the parts of the plant above ground.
The organism which causes these diseases is carried during the life of the plant to another in drops of water. Cultivating when the plants are wet with dew or rain will spread these diseases.
Seed treatments with chemical solutions have failed to control these diseases.
Spraying should, to a great extent,

control the anthracnose and blight if the spray material is applied thoroughly and the applications are made soon enough. The first application should be made when the cotyledons are still on the seedlings.

The diseases can be greatly reduced through the use of clean seed. Such seed can be secured by pod selection, or from Michigan beans grown one year in Idaho or California.

Native western beans cannot be successfully grown in Michigan.
By growing Michigan seed beans in Idaho or California, Michigan can secure clean seed each year, regardless of local weather conditions during the previous season. Such seed if planted consistently, as a general practice in the state, would reduce the losses due to these diseases to a negligible amount.

MUST RAISE OWN SEEDS

M. A. C. Issues Bulletin Telling Gardeners How It Can Be Done.

Department of Horticulture, Michigan Agricultural College.

East Lansing, Mich.—The wise gardener this season will be the gardener who raises his own seed, the department of horticulture of M. A. C. is letting it be known. This precaution must be taken, the department avers, because the supply upon which the country would normally depend for its 1919 planting will not be forthcoming. "The reserve supply of seed usually carried by the seed houses has never been so low in the history of the business," a bulletin from the horticulturist says. "This is attributable to a number of causes, among which may be mentioned the failure of the supply from Europe, the use of many seeds for food, an increase of about 50 per cent in the demand for planting, and the adverse weather conditions which have much reduced the usual California crop."

"The old-time practice of saving one's own garden seed can in this emergency be revived with advantage, remembering that the fundamental principle in successful seed saving is selection of seed only from the best plants."

A bulletin entitled "Saving Seeds for the Home and Market Garden" is being issued by the college, and can be obtained by mailing a card to the Experiment Station, East Lansing, with a request for "Circular No. 35."

VARIETY ORCHARD IN FAVOR

Opportunity Offered Orchardist to Make Selection of Kinds of Fruit Desired.

A variety orchard not only affords fruit in season, thus extending the time for fresh fruits, but it gives the orchardist a good opportunity to study varieties and thus fortifies him with information suitable for determining the best varieties of such fruits as apples, peaches, plums, pears, grapes, strawberries, blackberries, dewberries, etc. In this way we need not depend upon our neighbors' advice as to the best variety, though their advice may be helpful, but we can test the varieties on our own farms.

BERRIES PLANTED IN GARDEN

Good Plan to Set Between Rows of Early Sweet Corn—Remove Before Harm Is Done.

In the home garden, in case water is available, strawberry plants may succeed an early garden crop, preferably peas or beans, as they leave the soil in excellent condition. Not bad plan is to set strawberry plants between rows of early sweet corn. The corn gives some shade, but not too much and may be removed altogether before any harm is done to the strawberry plants. Strawberry plants can also be set between rows of early potatoes and a hoeing given when the potatoes are dug.

PURE AIR QUITE IMPORTANT

System of Ventilation Should Be Installed in Every Barn to Keep Cows Comfortable.

Every cow, stable, should have a system of ventilation to keep the air fresh and pure and the cows comfortable without exposing them to injurious drafts. Bad odors in the stable indicate that the ventilation is deficient. At least 600 cubic feet of air space should be provided for each cow. Farmers who desire to provide proper ventilation in cow stables can obtain information on this point by applying to the dairy division of the United States department of agriculture.

Pay Fare of Farmhands

Individuals who wish to work on the farms of the state, but who have no funds necessary to pay their fare there will be provided with tickets if they will apply to any of the state employment agencies. It has been announced by A. B. Cook, federal director of the labor bureau in Michigan, that tickets, however, will only be in the nature of a loan. Individuals who take advantage of the plan will be required to reimburse the state for whatever the ticket costs.

Bact. Abortion Harmless to Humans.
L. H. Cole, of the experiment station, has carried out during the summer a series of experiments, which, as a result of extensive experiments, has shown that the milk from cows affected with infectious abortion is not injurious to human beings. The details of his studies have been quoted in a bulletin (Technical Bulletin No. 35) being published by the college. It can be obtained on request.

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Hayes' Road Builders, \$15.00	10 in. Electric Cars, \$45.00
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Four Earthquakes in One Morning

Four seismic disturbances occurred in Japan on the morning of November 10. The first shock occurred at 6:55 and lasted for a minute and a half. It was weak. At 11:23 a brief but violent quiver was felt. Five minutes later a strong but horizontal vibration followed. The final shock, 11:54, was hardly noticed. Scientists declare the center of disturbance to have been fifty miles from Tokyo.—East and West News.

Self Rectification

A self covered with gravel cools much more slowly than a sandy soil, so that the heat absorbed during the day is retained farther into the night. This knowledge is taken advantage of in cases where, otherwise, late fruiting crops would either be caught by frosts or fail to mature through shortness of the high temperature season. Sod or cover-crops prevent warming of the soil.

Life is a Bourgeois Lie

If taken courage to do that which is unpopular, but which one feels is right. Courage is a great asset in citizenship; because it impels us to do right for right's sake and not because it pleases some one else.