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SATURDAY, APRIL 24, 1939.

Emmanuel at Presbyterian church,

W. B. APPLEGATE. Notary Public

Collections made, Real Estate write me.

PARADISE, OREGON,

King of Blood Remedies,

Levy's Oregon Grape Compound. Sold and guaranteed by Burnaugh & Mayfield, Enterprise, Oregon.

NOTICE FOR PUBLICATION.

Department of the Interior. U. S. Land Office at La Grande, Oregon, March 16, 1909.

Notice is hereby given that Henry Downs, of Lostine, Oregon, who on July 28, 1993, made Homestead Entry No. 13151-Serial, No. 03999, for WW SWW, NEW SWW, NWW SE a. Section 10, Township 2 South, Range 43 East, Willamette Meridian, has if ed notice of intention to make had Five Year Proof, to establish alm to the land above described, before D. W. Sheihan, U. S. Com missioner, at Enterprise, Oregon, on he 26 h day of April, 1909.

Claimant names as witnesses: bought and sold and all business Love Oison, Charles E, Van Pelt, matters attended to. Call on or Paul A. Harris, Floyd W. Hammack, of Lostine, Oregon, F. C. Bramwell, Register.



A Gentleman From Mississippi

Fighting in the United States Senate For the People Against Corruption

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OREGON

Home Course In Modern Agriculture

X!.—Bacteria— How They Affect the Farmer By C. V. GREGORY.

Agricultural Division, lowa State College Copyright, 1909, by American Press Association

E bear a great deal about bacteria, or germs, as they are more popularly called, but few people know what they really are. Although they are so small that it would take several thousand together to make a spot large enough to be seen with the naked eye, yet their importance to the farmer is not measured by their

Bacteria are tiny plants, each com posed of a single cell. These cells are of various shapes and sizes. Some are round, some long and some shaped like a corkscrew. Some are found singly and some in groups. Some

cannot move at all, some move by twisting themselves about, and still others have long, tail-like flagella by which they move themselves along.

Bacteria are made up of a clear, jellylike material called protoplasm. This protoplasm is surrounded by a harder cell wall. There is a great difference in the thickness of these cell walls, and on this thickness depends to a large extent the ability of the germs to withstand unfavorable conditions. Those with thin cell walls can be killed easily, while the thicker walled kinds are very difficult to exterminate.

Bacteria propagate themselves by dividing. One cell divides into two. Each of these two grows to full size and divides again, and so on. Under favorable conditions this process may be repeated every half hour. At this rate the descendants of one germ would in ten hours number more than a million,

At times the part of the protoplasm of a germ will gather into a round. comparatively hard mass, called a spore. The rest of the cell then crumbles away. This spore is inactive, but possesses much greater powers of resistance than when in the active state. These spores often remain alive to start the infection afresh after the active bacteria have all been killed by

Bacteria, like higher plants, have definite requirements for growth. One of the most important of these is moisture. Drying will not kill bacteria, but it will stop their multiplication, Another essential to bacterial growth is warmth, Cold, like dryness, will not kill them, but it will stop them from multiplying. This is the reason that the souring of milk or the spolling of meat, which is caused by bacteria. goes on much more slowly or not at all when they are kept in a cold place. One of the principal foods of bacteand lard, which contain no nitrogen, never spoll. Bacteria also require exvgen, though only certain species are dependent on the air for their supply. One of these is the kind that causes meat and vegetables to decay. This is why canned fruit and vegetables do spoil. The bacteria have been killed and the oxygen driven off by heating. The few germs that do get in before the can is sealed up cannot develop for lack of air. If the can is not air tight, however, some oxygen will find its way in, the germs will multiply, and the contents will spoil.

Not all bacteria are injurious. Although some of man's most deadly enemies are found among these invisible micro-organisms, yet many of them are his best friends. We have already learned about the bacteria that live on the roots of legumes and change the nitrogen of the air into a form in

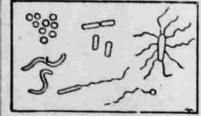


FIG. XXI-SOME TYPES OF BACTERIA. which it can be used by plants. The rotting of manure and trash to make bumus and of humus to make the elements of plant food available is also due to the action of bacteria. In this way bacteria, by making animal wastes available for plant food, complete the circle of plant and animal

The putrefying bacteria, or those which cause rotting, are more beneficlal than harmful. By their action dead animals and other refuse matter are quickly reduced to the elements from which they were unde. Even the odor given off during the process is also beneficial as a reminder that the matter of burying or burning has been

neglected. Other inicro-organisms in the form of yeast are a necessary help in breadmaking. The yeast plants, growing in the dough, set free considerable amounts of carbon dioxide. This gas in trying to escape fills the dough with

holes and spaces, making it "rise." The bacteria which cause milk and cream to sour are also useful. Butter made from sweet cream is lacking in flavor, and there is not so much of it, since the globules of butter fat do not to sour are harmless, there are others | teria. Let the scientists do that.

often found in milk that are not. The be kept down to as small a number as possible.

One of the most important methods every time they are used. Mere rins gists, ing with cold water is not enough Following the ordinary washing by scalding with boiling water is the only sure way of killing all the germs. In cleaning dishes a brush is much better than a rag, since it can be more easily rleaned itself. A dish rag remains damp for a long time after it has been used and furnishes an excellent place for bacteria to grow. The "dish rag detected in butter.

After the dishes have been scalded they should be placed in the sun for several hours. There should be as

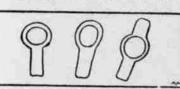


FIG. XXII-HOW SPORES ARE FORMED much sunshine as possible in the milk room and cow stable also. Sunlight. which is so necessary to the growth of the higher plants, is fatal to bacteria.

The stable where the milking is done should be cleaned and aired every day. A coat of whitewash should be applied occasionally, as in addition to being a good germ killer it also makes the stable much lighter Hay should not be fed immediately before milking, as the dust from it is covered with bacteria. The udders and flanks of the cows should be kept perfectly clean. A little dirt falling from them into the milk will take with It thousands of germs. The milk is drawn, but taken immediately to

the milk room. Many creameries and city milk dealers practice pasteurization. This simmuch harm. In creamerles a starterthat is, a portion of milk which contains a particular kind of bacteria-is added after pasteurization and the cream then "ripened" for twelve hours or so. By thus supplying germs which ria is nitrogen. Without it they can. are known to produce desirable flanot live. Because of this fact sugar vors and killing the others butter of very high quality may be made.

are bacteria everywhere-in the soil, in the air and in the water. By far the greater number of these are harmless. Even disease germs nores the river's warnings-growing are unable to obtain a foothold in a ripples and faster current. Nature's perfectly healthy animal or person. warnings are kind. That dull pain The secretions of the mouth and the digestive organs are fatal to many of them. Even if they succeed in getting into the blood they are not yet escape fatal maladies-Dropsy, Diaout of danger. The blood contains betes or Bright's disease. Take Eleclarge numbers of white corpuscles, tric Bitters at once and see Backwhich seem to have no duty to perform but to seize and destroy these invaders. It is only when an animal becomes weakened from one cause or another that these corpuscies fail to bottle wholly cured me," writes J. R. do their duty and the germs begin their Blankenship, of Belk, Tenn. Only destructive work.

The first step in avoiding infection by disease producing bacteria, then, is to keep the animals healthy by proper feed, exercise and shelter. The next point is to do everything possible to prevent the germs from getting into the animal's body.

In case a contagious disease of any sort appears the sick animals should be shut up by themselves as far as possible from the rest of the herd. Disinfectants, such as coal tar dips and bichloride of mercury (one part of the chemical, two parts salt and 1,000 parts water), should be used freely. Care should be taken not to carry the germs from the sick animais to the well ones while caring for

them. Wounds, such as wire cuts, need especial care to prevent infection. Ordinary disinfectants are too irritating. yet something must be done to keep the bacteria from attacking the raw surfaces. Keeping the wound bound up tightly and sprinkling daily with powdered ledeform is one of the best ways of insuring rapid bealing.

The germ problem, like the problem of weeds and insects, is easily solved If it is gone at in the right way. Cleanliness, sunlight and disinfection will do much to hold the lujurious ones in check, and the others need no encouragement to continue doing their invisible though none the less real work to help us. There is no especlal reason why the germ problem should be made a matter of constant uheasiness on the part of the farmer. It requires a scientist to discriminate between bacteria that are injurious and those that are necessary, and in the meantime it is sufficient for the ordinary agriculturist to be diligent in intrenching himself behind cleanliness. collect as readily as in sour cream. Thus fortified he will have little occa-But, while the germs that cause milk sion to make a special study of bacUp Before the Bar.

N. H. Brown, an attorney, of Pittsfield, Vt., writes "We have used Dr. King's New Life Pills for years and find them such a good family medicine we wouldn't be without them.' For Chills, Constipation, Biliousness or Sick Headache they work wonders 25c. All druggists.

A Woman's Aim. The queen of hearts she stole some darts Right out of Cupid's quiver. She aimed a dart at Willie's heart—

But shot him through the liver.

—Lippincott's Magazine.

I'd Rather Die, Doctor,

than have my feet cut off," said M. L. Bingham, of Princeville, Ill., "but first variety will always be plentiful you'll die from gangrene (which had enough anyway, and the others should eaten away eight toes) if you don't,' said all doctors. Instead he used Bucklen's Arnica Salve till wholly of doing this is by cleanliness. The cured, Its cures of Eczema, Fever milk pails and strainers and the sepa- Sores, Boils, Burns and Piles asrator should be thoroughly cleaned tound the world. 25c. at all drug-

> Geography Class. The Teacher-Now, Johnny, you may tell me how the earth is divided. The Pupil-By earthquakes.-Cleveland Leader.

Used by the Multitude. Levy's Oregon Grape Compound. flavor" caused by these can often be For general spring tonic. Sold and guaranteed by Burnaugh & Mayfield,

> "Why do you laugh so burriedly when your husband tells a story?" "If I don't laugh promptly he tells it all over again."—Cleveland Plain Dealer.

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> A Song of the Street. Some day the merry birds will call.
> Some day the sun will shine so clear
> Some day, oh, sweetest thought of all.
> The grimy snow will disappear!
> —Washington Star.

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'Twas more than fifty years ago.
—Chicago News.

Foley's Honey and Tar is a safeguard against serious results from spring colds, which inflame the lungs and develop into pneumonia, Avoid counterfeits, by insisting upon having the genuine Foley's Honey and Tar, which contains no harmful drugs. Burnaugh & Mayfield.

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> But, as sure as you live.
> When he asks you to lend He expects you to give.
>
> -New York Telegr

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