PEAR BLIGHT AND ITS CONTROL PACIFIC COAST THE UPON

This is the Fourth of a Series of Articles That Will Be Printed Daily Until Subject Is Completed-Every Orchardist in the West Should Save These Issues for Future Reference, as They Contain Valuable Information.

By PROFESSOR O'GARA,

Medford Mail Tribune.

know, are among the most minute blossoms. The germ multiplies in Worthington; two. This is the only way in which greatest of east. Ordinarily, the en- the heart only." they may increase their numbers, tire pear tree is sealed up with an Dr. Worthington also ably defendtremely minute, they may be meas- so as to prevent evaporation from tered with the world's dead. Germs paratus. The standard of measures the pear blight germ unless it is in-pendous in their life work. ment for these minute objects is the jured or broken. The nectary is not taleromillimeter, and a millimeter is covered by cuticle and is, therefore, about one twenty-fifth part of an an easy place for the germs to enter. two-thirds to three-fourths of a the infected blossoms adding to, or micro-millimeter wide, and from one even taking the place of the nectar; to one and one-half micromillimeters and honey bees, wild bees, wasps, long when it has reached its mature files, and perhaps 50 other species of stage. As another illustration show- insects visiting the pear blossoms or ing their minute size I may say that apple blossoms carry the germ-infect- back. if 25,000 pear blight germs were ed material. When once the insects' placed end to end they would scarcely mouth parts and feet are infected, were well. measure an inch in length. Curious- blossoms which it visits thereafter bely enough, the young germs are come, in turn, infected as the insects nevs. longer than the older ones. When drop off a few germs into the necthey are growing rapidly their de- tary. The blight virus being also a dorses this claim: velopment in length goes on more sticky material and usually requir- Mrs. Mary Winterhalder, near W. in dust which may be blown about found that the uncovered flower vis- ment."

by the winds. The germ dies rap- lited by insects contracted the blight. idly in the blighted tissues, as soon while those covered by bags, mos-cents. Foster-Milburn Co., Buffalo, as the tissues have become fully quito netting and other material N. Y., sole agents for the United killed. It cannot withstand drying, which kept out insects remained free States. usually dying within two weeks or from the disease. Occasionally, a Remember the name-Doan's-and so. It is killed by exposure to di- bumming bird visits the infected blos- take no other. rost sunshine in a very few minutes, soms. This has been observed in a usually not more than ten minutes number of instances. Doubtless, unless protected by the bark or twice. birds get the gummy material on 100 Acres foothill land 1 1-2 miles get the necessary food for its existence and multiplication. In fact, the pear blight germs disappear and die very shortl, after they are exuded or washed out by the wins from the twigs and branches. It also dies when the blighted bark dries up. It can only live along the advancing margin of the disease in the thick man himself. After the blossoming fice for particulars, period is over or even before it is fleshy bark or cambian which has entirely finished, blight may be been invaded by the bacteria, and found attacking the tender twigs. which does not have time to dry Our common insects have been found out until the cool weather apto be active agencies in not only the proaches. The thick bark of the distribution of the disease, but in large limbs, branches and root syspuncturing the tissues and thereby intem remains moist during a long period, especially in the winter. By this method, the importance of which we will show later, the germs are able to carry over, or live over, from lutely certain that they do all the one season to another. As a matter of fact, it is only by this means that the pear blight germ can live over during the dormant period of the trees. The germs are killed by high temperature, they are wholly destroyed when subjected in liquid culture to the temperature of 55 degrees centigrade for ten minutes. They are wholly uninjured, on the other hand, by any degree of cold. Temperatures of 40 degrees below zero have no effect whatever, They CHARGE DOCTOR WITH may be found to be frozen at this temperature, but thaw out immed? ately when plunged into warm water and go on with their activities -It has become known that Dr. Dun- 100; this property brings a rental of uninjured. Cold retards their de- lop Moore of the United States ma- \$65 per month, pays 17 per cent net velopment, but it also prolongs their life. Like other vegetable organ-Isany, cold storage has the effect of ferred to Baltimore. Hospital of it. We have the best line of business

ag the tender tissues.

(To be Continued.)

SAN FRANCISCO, Cal., May 11

the result of protests against Dr.

tient at the hospital. While slap-

ping is sometimes considered a prop-

er form of medical treatment, the

Sailors' union took up the case and

charged that it was, in this instance,

Haskins for Health.

Life History of the Germ.

ism lives for a relatively short time

at room temperatures, while if the

cultures are put into the icebox the

germs may live for months provid-

ing the culture medium does not dry

In the laboratory the organ-

In the life cycle of this germ, blos- brutality. som blight may be considered as the first step, at least, this is the first

KISS ALL YOU WANT!

Bacteria? Bosh! Only the Heart Is Affected," Says Harvard Professor-Puts "O. K." on the Art.

step in its life cycle that is noticed Assistant Pathologist United States by the casual observer. For a long CAMBRIDGE, Mass., May 11 .-Department of Agricuture. Writ- time it was a great puzzle where the Harvard has officially put her O. K. ten especially for the Medford Mail germs came from that produced the on kissing. Dr. A. M. Worthington Tribune. Copyright, 1910, by the first blossom blight in the spring of of the medical school, an expert on the year. This one link in the chain, bacteria, not osculation, says that where the germs remained during the there is no reason whatever why (Continued from Tuesday, May 10.) dormant season, was missing. No healthy and well intentioned couples The Bacillus and Its Life History. one knew how the first blossoms shouldn't indulge in kissing to their The germ causing this disease is became infected. Given a number hearts' content. Incidentally, his named by bacteriologists "bacillus of blossoms infected, it was compar- statement shatters the theory adamylovorus." For our purpose of atively easy to discover the methods vanced many times by professors of discussion we may call it the pear by which the germs were carried other universities that kissing is blight bacillus, the pear blight germ about. Not only in natural infec-dangerous, because it makes a swap or the pear blight microbe, all these tions, but in those artificially pro- of microbes and illness in one or terms meaning practically the same duced with pure cultures, insects both parties to the union often folthing. These germs as you probably were found visiting the blighted lows such diversions. Said Dr.

of living things. Bacteria or germs the nectaries of the blossoms as "Kissing harmful? Certainly not! are vegetable organisms and are as readily as it does in a culture me- No. sir! There is no possible reatruly plants as trees, grasses, etc. dium, since the nectar glands exude son in the world, or proof in the However, they are very low down in a sugary solution which furnishes the world, why when two self-respecting, the scale of the vegetable kingdom organism the necessary food supply, wholesome persons meet lip to lip since they consist of a single cell. The enzyme or ferment given off as they can't break away without upwhich may be elliptical or red like a by-product by the germ dissolves setting the bacterial balance. Perin form. They multiply by length- the delicate cells beneath, permitting haps the only serious danger springening a little and then pinching in the germ to pass downward with the ing from such a union would affect

This process can take place within air tight and water tight cuticle com- ed our friends the "microbes," rehalf an hour or less, and this I posed of a thin layer of the same ferring to them in other circumhave proven by observation in a composition as cork. Even the stances. He asserted that if bactehanging drop culture under the mi- breathing pores are plunged up dur- rin were driven from the land the croscope. Although they are ex- ing the dormant season of the tree world would become a desert scatured by means of mi moscopical ap- the fissues. This cuticle keeps out are humble in their needs, but stu-

HOUSEHOLD CARES.

inch. The pear blight germ is from The gummy exudate pushes out of Tax the Women of Medford the Same as Elsewhere.

> Hard to attend to household duties With a constantly aching back. A woman should not have a bad

And she wouldn't if the kidneys Doan's Kidney Pills make well kid-

Here is a Medford woman who en-

rapidly than their division. This ing a considerable mass, specking Jackson street, Medford, Or., says: germ forms no spores, and for this from the microscopic standpoint, to "I have used Doan's Kidney Fills myreason can not live over in the dry produce infection, is not blown by self with good results while sufferseason, such as the germs of anthrax the wind. Of course, the negative ing from kidney trouble and I know which form spores. The pear hight of such a proposition is hard to prove of other persons who have taken germ is very sensitive to drying and, conclusively, but experiments have them with the same beneficial effect. in fact, is a very short lived germ, been made to decide this matter by Since I took Doan's Kidney Pills is highly important, as spore-forming ting along side of artificially in- least trouble from my kidneys. This bacteria are capable of living over fected flowers, and it was readily remedy deserves my hearty endorse-

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It rapidly dies when it is washed their feet and carry the blight long from Phoenix, very best deep free into the soil, since it can not longer distances. However, we look upon soil; 36 acres in bearing trees; 13 insect distribution as by far the most acres of which are Spitzenburg immediate means of infection, espe- apples, promising a big crop this cially, in blossoms; in carrying the year; 10 acres in alfalfa; good house blight from flower to flower, tree to and barn. It's above frost line with tree and orchard to orchard, although a beautiful view of the valley. This doubtless occasional long distance is an ideal fruit proposition and we distribution is accomplished by birds are in a position to make excepor some other agencies, including tionally easy terms. Call at our of-

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City Property

troducing the germs into them. While it is easy to prove that in- street, lot 53x100, east front; a good sects cause some of the infections of buy at \$2400, one-half cash, balance some of the twigs, it is not abso- one year at 7 per cent.

Modern 7-room house on Tenth inocolating. Twigs are sometimes found with blight started in the axils \$3900, terms. street, lot 100x100; a fine home at

of the leaves or in the tender back Modern 7-room bungalow, close to where no punctures can be found on careful examination. It is possible West Main street, lot 50x132, \$50 that the germ may enter in damp range connected with hot-water tank weather through growth cracks goes with the property; price for a where the cuticle is raptured expos- short time, \$2500,

Ten lots on West Second street; these lots are worth \$300 each; inprovements on property worth \$800, making a value of \$3800, that can be CRUELTY: IS TRANSFERRED bought at \$2750.

Modern 7-room house, close in, on South C street; east front, lot 50x rine hospital here has been trans- on investment; price \$4300, terms-

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