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PEAR BLIGHT AND ITS CONTROL UPON THE PACIFIC COAST

Professor O'Gara, Pathologist of the United States Department of Agriculture Writes First Authentic Description of Dread of Orchards

This is the First 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 P. J. O'Gara, Assistant Pathologist, U. S. Department of Agriculture. Written especially for the Mail Tribune. Copyright by Medford Mail Tribune.)

In the preparation of this article on pear blight the writer has in mind the many requests that have been made very recently for a complete discussion of this subject, and it is to be hoped that those who are interested in it will preserve the several numbers in which this serial article will be published. Although a large number of pathologists have studied pear blight from the laboratory standpoint, very few have ever carried out successful experiments in its control. To the United States department of agriculture belongs the credit of working out the methods of control and putting them into practice. The field work has been carried out in the east and south and on the Pacific coast in California and Oregon where excellent results have been obtained.)

General Account of the Disease Known as Pear Blight.

Early History and Native Origin.—In going over the literature on pear blight we find a long array of articles which describe the disease fairly well, but in the earlier accounts the conclusions concerning the cause of the disease are erroneous. The earliest record we have of pear blight was published in the "Transactions of the Massachusetts Society for the Promotion of Agriculture in 1794. This report contains a letter written by William Denning, December 22, 1793. He first saw the disease on the highlands of the Hudson in 1780. He also noted that, besides attacking apples, the malady also affected pears and quinces. Subsequently, others reported its occurrence on Long Island and in New Jersey and Pennsylvania in the vicinity of Philadelphia. It also seems to have appeared quite general in the apple and pear orchards in the eastern states, and following the settlements in Ohio, Indiana, Michigan, and Illinois we find that the pear blight appeared and attacked the young pear and apple orchards. It was also well known that the disease occurred on wild crab apples and hawthorns of the eastern states, but, singular as it may seem, it is unknown in Europe and Asia where the pear and apple are native. These facts point to the eastern United States as the native home of this disease and that wild fruits of the pome family, such as crab apple, hawthorn, mountain ash and service berry are its native host plants. It injures these trees, however, to a very much less extent than it does the more sappy and vigorous growths of the cultivated pear, apple, quince and other fruits of the pome family. It is very important that every one should know that the pear and apple are not the only species of the pome family that may be destroyed by blight. In some recent publications it has been noted that no reference has been made to any other species of the pome family than the pear and apple. This is a serious mistake. Orchardists should know, for instance, that the quince is most seriously attacked by this disease. The writer knows an instance where an entire district became infected through a single case of blight which had its starting point in a quince. Therefore, let it be understood that the pear, apple, quince, loquat, haw, service berry and mountain ash are all on one or less subject

to this disease. To a limited extent the disease also affects one plum, and the apricot. It has been noted as attacking the blossoms and young shoots of the latter varieties of stone fruits. However, from a pathological standpoint, it cannot be considered as a serious disease for any of the stone fruits.

Cause of the Disease.

Although the disease was known as early as 1780, it was not until 1878 that Prof. T. J. Burrill of the University of Illinois, one of the pioneer plant pathologists, discovered the true nature of this disease and named the organism which causes it, namely, *bacillus amylovorus*. From the early date when the pear blight first became recognized as a disease up to the time that Prof. Burrill discovered its true cause there had been much discussion regarding it, but most of the discussions are of little interest at the present date. I may also add that even now there are many so-called fruit growers who do not care to believe the facts now so well known to every worker in plant pathology. Rather than believe the unquestioned facts which have been made known by the microscope, they are even willing to delude themselves by such explanations as were given by those who first recognized the disease—such as lightning, frost, heat and various other causes. Dr. Burrill's discovery of the nature of pear blight is of striking and fundamental importance inasmuch as it was one of the first, if not the first, bacterial disease of plants to be discovered. A Dutch botanist, Dr. Wakkker, discovered a hyacinth disease about the same time to be of bacterial origin, and it may be said that this is the only rival in priority to Dr. Burrill's discovery. At this time, research along the lines of plant pathology, especially along bacteriological lines, was not being carried on with a great deal of vigor, and even after the above-named discoveries of Dr. Burrill and Dr. Wakkker, a good many prominent bacteriologists hesitated in accepting this work with any great degree of confidence. It was well known at this time that certain human diseases were caused by bacteria, but most bacteriologists were quite unwilling to think that vegetables could be invaded by germ life. That Dr. Burrill's discovery was doubted by many eminent men should cause little wonder, because at that time there were fewer advantages and fewer laboratories equipped for scientific research than there are now. Even at that time the great Dr. Koch, the eminent German authority on tuberculosis had not yet discovered the cause of this disease now so commonly known as consumption. However, since the initial discovery of the bacterial nature of the pear blight disease investigation of its nature and the life history of the germ have proceeded along the lines of modern bacteriological methods until at the present time we have as complete a knowledge of the pear blight germ as the doctors or physicians have of the typhoid germ or germ of tuberculosis. In the spring of 1889, Prof. M. B. Waite, pathologist of the U. S. department of agriculture, was assigned to the task of investigating the pear blight disease. At the time when he began his work, while the disease was known to be of germ origin, the life history of the germ was not known. No one had yet found out where the germ remained during the dormant period of the trees; that is to say, during the fall and winter.

TO DISTRIBUTE 27,000 COPIES BOURNE SPEECH

Insurgent Leaders in Congress Will Distribute Oregon Senator's Remarks in Senate Upon Initiative and Referendum Laws.

WASHINGTON, D. C., May 7.—Insurgent senators, including LaFollette, Cummins, Bristow and Brown, at a conference have decided to send out 27,000 circular letters to news editors all over the United States extolling Senator's Bourne's speech, particularly his remarks on the initiative and referendum and the recall. Senator Bourne has agreed to pay for printing and mailing these circulars. Senator Brown undertook to have 50,000 copies of Bourne's speech printed as a public document at the government's expense but Senator Gallinger objected.

HALLEY'S COMET VISIBLE MEDFORD THIS MORNING

Halley's comet was visible Saturday morning to those residents of Medford whose business or inclinations caused them to be awake and on the street between 2 and 4 o'clock a. m. Policeman Atwell reports the appearance of the comet in the east at an early hour, and that it was quite brilliant. The tail, Mr. Atwell says, "was apparently about a block in length."

New Cases in Circuit Court.

Margaret Meredith vs. Bert E. Meredith, divorce; W. E. Phipps, attorney for plaintiff.
W. I. Vawter, executor estate of D. Polk Mathews vs. A. L. Hazelton; to recover money. W. I. Vawter attorney for plaintiff.

STEAMER GOES DOWN; PASSENGERS SAFE

Strikes on Rocks of Bay of Bulls and Rests on Bottom Under 25 Fathoms of Water—Passengers All Off.

BOSTON, Mass., May 7.—The British Normandy, bound for Toronto from London, struck and sank in 25 fathoms of water on the rocks of Bay of Bulls, New Foundland, today.

Fifty passengers aboard the vessel, 31 of whom were women, were landed safely at St. Martin's in the ship's boats.

News of the disaster is contained in dispatches from St. John's, N. F.

Funeral of R. J. Cameron.

The remains of the late Robert J. Cameron will be interred in Jacksonville cemetery this afternoon at 2 o'clock p. m.

The funeral services will be held under the direction of the Masonic order of which the deceased was a member.

Mr. Cameron was one of the pioneer citizens of the Applegate section and was aged 78 years, 10 months and 9 days at the time of his death.

It had been supposed that the germ lived in the soil or in swamps, if such were near by, and that during the spring when the blossoming season began these germs were blown by the winds into the blossoms, and infection again started. Prof. Waite, after an enormous amount of experimentation, found that the germ did not live in the soil, furthermore, he found that it did not blow about in the winds.

(To Be Continued.)

UXTRA! UXTRA!! LOOK OUT FOR WOMAN'S EDITION

Women of the Greater Medford Club will take charge of the Mail Tribune for next Sunday's issue. The proceeds will go to the library and park. It will be a paper written and managed by the women of Medford. The newspaper has been turned over to them for the day. They will write the news, solicit the ads, collect what they want for them, and sell the papers on the street. Advertisers who want space in this greatest paper ever issued, containing all the unpublished news that women talk about, must deal with the ladies, and must act at once, as there is a great demand. Watch for it. Sunday, May 15.

GRAVES SAYS HE IS CARRYING OUT PINCHOT PLANS

Chief Forester Arrives in Portland on Tour of Inspection—Says He Will Follow Pinchot's Policies in All Respects and Will Not Deviate.

PORTLAND, Ore., May 7.—"My policies are identical with those of Mr. Pinchot and whatever changes have been made and might be made will not in any way affect these policies," said Henry Selen Graves, chief of the United States forestry service who arrived in Portland today on an official tour of inspection.

The president appointed Graves successor to Chief Forester Pinchot in the midst of the Pinchot-Ballinger controversy.

"The policies of Mr. Pinchot are being carried out in every respect," said Graves this morning, "and there is no intention to deviate therefrom excepting in cases where readjustments have become necessary as they would in any other line of endeavor as time progresses."

Graves expects to remain in Portland several days. He intends to go to Missoula, Mont., after visiting Oregon and Washington.

BASEBALL NOTES

Well, we go to Jacksonville Sunday. Yes, and there will be a good bunch of fans along.

Jacksonville has some good Medford rooters. Ask Pug about it.

Say, what do you think about Miles' hitting this year? On the nose every time.

There are many speculations as to which team will first break Medford's percentage column. The majority of fans favor the Central Point team.

Medford plays Central Point on our home grounds May 15. Just take a tip, there will be some excitement in that game.

Anyway, the fans seemed to be pleased with last Sunday's game. After all, that is all there is to it.

Next Sunday's game at Jacksonville ought to be just as good. The train leaves at 1:15 p. m.

No cheap sports in Medford. Thirty \$50 seats have already been sold for the Johnson-Jeffries fight.

Jacksonville will celebrate July the Fourth.

Yes—sometimes a placard in a window helps the advertiser to find the house that's advertised. But it does not usually help much more than that.

A QUIET WEEK IN SOCIETY; ELKS DANCE PRINCIPAL EVENT

GOVERNOR FORT WILL NOT ASK FOR J. ODGEN ARMOUR

Refuses to Make Requisition Upon Illinois for Packer Who is Wanted in New Jersey Upon a Charge of Conspiracy—Probably End of Case

TRENTON, N. J., May 7.—Governor Fort today refused to make a requisition upon Illinois for J. Odgen Armour, wanted here on a charge of conspiracy.

The governor declares that Armour was not in New Jersey on the date mentioned in the indictment. This action probably ends criminal prosecutions so far as individual directors of the meat trust are concerned.

Baseball Sunday.

Medford is due to fall down from that 1000 per centage this afternoon. This is the second time I have made this prediction and I never miss more than three times in succession on a ball game. Really, though, with McIntyre in good condition and the bunch behind him playing the kind of ball they used to play when the Donaghees made most of the team they should hold the Medfordites to a close score. Pat Donegan, with his cool head and knowledge of ball playing, gained by the way from study, not from actual observation, was a big factor in Jacksonville's success in past years. With a weak team Pat has pulled many a game out of the fire. Now he is doing the umpire stunt and he recognizes neither friend nor foe in his decisions.

Manager Ulrich of the Jacksonville baseball team expects to cop a game from the leaders today. His team has been strengthened somewhat and with "Mc" pitching the same game he did last Sunday, the Jacksonville boys ought to put up a good argument.

SYMPHONY ORCHESTRA IS TO BE HEARD HERE

Walter Damrosch With His World-Famous Orchestra and Four Vocal Artists Will Entertain in Medford.

Medford is about to hang up another record in the amusement line—this time it will be the appearance of Walter Damrosch and the New York Symphony orchestra of 56 men, accompanied by four metropolitan vocal artists. This will be the smallest city ever visited by this world renowned organization and is only another fact which points to Medford's growing importance in the outside world. This attraction is the first of a list of artists that Seers and Connan, the N. Y. impresarios will send to Medford during the coming season including such famous names as Schumann-Heink, Sembrick, Kubelik, Kreisler, etc. Mr. Damrosch is easily the foremost figure in American music today.

Besides introducing the Wagnerian operas to the American public Walter Damrosch is to be credited for performing a large number of new works for the first time in this country. Among the important operatic works which received their first production in America under his baton are Corneilus, The Barber of Bagdad, Goldmarks's Merin, Paderewski's Manru and Saint Saen's Samson and Delilah. Finally he was the first one to reveal to the music lovers of this country Tschaiakowsky's pathetic symphony and Eugen Onegin, Dvorak's The New World and Elgar's first symphony.

Social Circles Enlivened By Series of Dinners Both at Home and at Grills-Card Parties and Entertainments Complete the Rountine

Greater Medford Club Postpone May Day Fete in Order to Embark in Journalism—High School Holds Its Annual Exhibit of Domestic Science—Pupils of St. Mary's Academy Render An Enjoyable Program to a Large Audience.

The most enjoyable dance of the season was that given by the Elks Wednesday night. The hall was gay with their colors—purple and white—long festoons of bunting were artistically draped across the hall, while royal purple pennants were strung everywhere. Large American flags were also used. The lights were shaded with purple tulip shades, which gave a very subdued but effective light. Some very stunning gowns were worn and the Elks, as usual, saw that everyone had a most enjoyable time.

The Greater Medford club is proving its versatility by showing the number of things it can do and do well. Its latest departure is in the newspaper field, and next Sunday it will show how the ladies can excel in that, as they will take charge of the issuing of the Mail Tribune on that date.

Mrs. E. E. Gore will be managing editor, Mrs. H. C. Stoddard city editor and Miss Emily Janney telegraph editor. Those on the business staff are Mesdames Reddy, Hollis, Reagan and A. H. Miller. Mrs. Edgar Hafer and Mrs. B. P. Theiss are the advertising solicitors.

The proceeds will go to increasing the park fund.

The pupils of St. Mary's academy gave a most interesting musical and dramatic entertainment Friday night. The play, "Dolores, or Through the Fires of Sorrow," was the principal event of the evening. Miss C. Deuel as "Dolores," carrying off the honors as the unselfish girl, who to save her elder sister from the discovery of theft, is turned into the street by a heartless mother, but being befriended by a benevolent widow— which part was well done by Miss Z. Griffin—wins honor and fame.

Miss G. Fay as the vain elder sister who learns humility through suffering, was good. The character of the old nurse was well sustained by Miss V. Griffin. Miss B. Litherland did well as the faithful friend and cousin of Dolores and the little Misses Slover, Trimble and Klum made very attractive younger sisters. Mr. L. Wilson as the good hearted policeman quite won the hearts of the audience and Miss Caroline Andrews was a very wicked little street singer. The Misses J. Root, F. Lashley and C. Murphy made excellent young ladies of fashion. Miss M. Gillette did well as the maid.

The bugle song in pantomime, the dream fairies and the revel of the Naiads were all splendidly done by the girls of the school, and the boys in "Ole Man Moon" were very enjoyable.

A little one act comedy entitled "Love of a Bonnet," was very amusing with Miss V. Griffin as the mother, and Miss J. Anderson, her daughter, did well as "genteel" people of fashion, and Miss M. McKee was capital as "Katie, the Irish help."

Miss A. Kingsbury sang "Happy Days" (Strelzki) very well, with violin obligato by Miss I. Flynn, Miss Kentner accompanying. The instrumental selections were very well done and the young ladies deserve great credit for their work.

Those taking part were the Misses G. Fay, B. Litherland, I. L. Kentner, M. Deuel, J. Root, J. Anderson, C.

Andrews, V. Childers, N. Samuels, D. Deward, E. Trimble and E. Larouche.

The entertainment reflects great credit on the sisters of the academy. Others participating were: Misses G. Fay, B. Litherland, I. L. Kentner, M. Deuel, A. McMahon, A. Dietrich, H. Reddy, M. Roife, M. Brown, L. Klum, G. Hargrave, D. Deward, N. Samuels, E. Larouche, J. Boren, I. Randolph, F. Tenny, T. Frazier, E. Trimble, A. Wakeman, L. Smock, A. Vogel, M. Gordon, L. Weaver, J. Anderson, C. Emig, C. Andrews, V. Childers, V. Thornburg, B. Brown, I. Brown, L. Arzner, A. Chandler, L. Barry, M. Rolfe, A. Rolfe, E. Townsend, E. Miller, B. Penninger, L. Slover, S. Bruckner, A. Simons; Messrs. B. McMahon, O. Larouche, J. Rouché, P. Reddy, W. Rice, R. Duff, L. Duff, J. Brophy, Jas. Brophy, Richard Singler, Rudolf Singler, V. Singler, P. Murphy, O. Parker, E. Green, B. Pressley, L. Ingram, R. Boren, H. Daley, N. Samuels, D. Deward, E. Trimble, E. Larouche; Misses J. Anderson, J. Root, C. Andrews, V. Childers, A. Kingsbury, I. L. Kentner, I. Flynn, Z. Griffin, V. Griffin, M. Deuel, C. Deuel, I. L. Kentner, A. Kingsbury, B. Litherland, G. Fay.

A very pretty dinner was given Thursday night at the home of Mr. and Mrs. Edgar Hafer. The affair was in honor of Mrs. Susan Lawrence Dana of Springfield, Ill. The decorations were in pink and the very effective centerpiece was a huge basket of pink carnations, with long streamers of pink satin ribbon. Dainty pink place cards were used.

Following the dinner was dancing and music. The guests were: Mrs. Susan Lawrence Dana, Mr. and Mrs. Vawter, Dr. and Mrs. J. F. Reddy, Messrs H. Dudley, F. R. Allen and Waite of Roseburg.

The high school held its annual exhibit of the work during the year. The domestic science and manual training exhibit was the most important, as this is the first year they have exhibited, and the showing was a very creditable one. Following is the musical program which was given during the afternoon:

Selection, by high school orchestra; piano duet, Misses Schultze and Godlove; piano solo, Miss Ruth Woodford; recitation, Edison Marshall; selection, Mandolin club.

There were many dinner parties at the Louvre cafe during the week. Among those noticed were Mr. Martin with a party of six; Dr. and Mrs. Reddy and party, Mr. and Mrs. Daniels and party, Mr. Corum and party of four, Mr. Rosenbaum and party, Mr. and Mrs. Haskins and party, Mr. Gay and party, Dr. Ray and family, Mr. and Mrs. Barneburg and party, Mr. and Mrs. Quinsberry and party, Mr. Burke and party, Dr. and Mrs. Barber, Messrs. Frank Burgess, Geo. Bordeaux and party of twelve.

Mr. and Mrs. F. H. Hopkins, the former owners of the Snowy Butte orchard, left Monday for Portland, which is to be their future home. They will be greatly missed in Medford by their hosts of friends, who hope for their speedy return. They were ideal hosts and their home was always at the disposal of their friends.

The Eastern Star will hold the regular meeting Wednesday. All members are requested to attend, as there is work on hand.

(Continued on Page 13.)