

TREATISE ON ANTHRACNOSE

Prof. A. B. Cordley of the Oregon Agricultural College, delivered a "short course" address to the students of that school on "Anthraco-nose Scab." He began by asserting that anthracnose existed in every orchard in Western Oregon as far south as Medford, but that none had been reported south of there. There was a case in Eastern Oregon, more at the Red River, the disease increasing as it came westward through the state.

Spores of anthracnose were found on small pustules on the bark of the trees, where they were dormant until fall rains begin. On a young tree they could be cut out during the dry months of summer, but there was a danger of missing them. When fall rains began the spores germinated and were scattered through the orchard to neighboring orchards, or settled on the bark of the trees and on the branches were moist, they would show as small chocolate-brown spots on the bark. After the first rain had been made, paring the bark in December or January would prevent that wound from spreading, but the searcher was liable to miss any of the patches. About the first of June the anthracnose fungus extended as far as it would go that year, and a crack was then made between the bad and the new bark.

The anthracnose could be controlled by proper spraying in the fall when the spores were germinating. This was much the safer method, the spray would reach every part of the tree if properly applied. Either Bordeaux mixture or the lime-sulphur spray could be used with equal effect. If the lime-sulphur spray were used, it should be winter strength. A spraying should be done as soon as possible after the fruit was gathered, the sooner the better. If the tree was badly infected it should be sprayed twice, the second spraying being from three weeks to a month after the first.

That spraying was effective was proven in an orchard near Eugene. The orchard had been divided into three divisions. One was left without spray. One was sprayed with Bordeaux mixture and the third with lime-sulphur. The unsprayed portion had more new spots of anthracnose on the tree when the examination was made after the spraying had taken effect than were found on 120 of the sprayed trees in either of the other two divisions.

Apple scab is a fungus disease shared the speaker. It lives in the crevices on fallen leaves lying under the trees. A little before the blossoms open in the spring the spores on the dead fallen leaves light on

the under surface of the new leaves and buds, there germinated, sprouted, and attacked the new leaf and the fruit. The scab could usually be found first on the leaves near the ground, as the spores coming up from the ground lighted on the nearest leaves and gradually worked upward. They were noticeable as small, dark olive green patches on the under surface of the leaves. While the scab injured the fruit, as the scabby leaves deprived the tree of food that much sustenance and by a long time developed a smaller fruit.

Scab was also controlled by spraying. Bordeaux mixture had been used successfully for the purpose, but it was dangerous to use from the fact that it had a tendency to cause rust on the fruit. The spraying should be done just before the buds break, just after the blossoms fall, and again two or three weeks later. Results equal to Bordeaux mixture could be obtained from lime-sulphur spray diluted, and this spray did not cause rusting of the fruit and was not likely to injure the young foliage. The lime-sulphur stock solution should cost from 25 to 28 with a Beaume acid scale hydrometer, an instrument every farmer should have. Dilute this stock solution in the proportion of one gallon of solution to eighteen or twenty gallons of water. The diluted spray should always be fresh when it is used. The stock solution could be kept for an indefinite period. No spray should be used that has caustic soda in it. No farmer should buy a stock solution that the seller is unwilling to guarantee free from caustic soda.

The Oregon Agricultural College had been using a new lime-sulphur spray with good success. The formula is as follows:

110 pounds best fine ground sulphur
50 pounds best lime

Mix the sulphur into a paste free from lumps, being sure all the sulphur has been moistened, using a little water for this purpose; slack the lime; mix the sulphur and lime together and then add sufficient water to make sixty gallons. Boil vigorously for an hour; then allow to settle for two or three days. There will then be drawn off from forty to fifty gallons of clear, amber-colored liquid. This should test 26 to 28 with the acid hydrometer. For normal spraying this should be diluted from 1 to 10 or 11; for spraying for scab, dilute in proportion of 1 to 18 or 20. In the second spraying for scab, two pounds of arsenate of lead can be added to 50 gallons of this formula to combine a spray that will catch both the scab and the codling moth. Use an alkali arsenate for this purpose. An acid arsenate should never be used, as it injures the foliage. The reason why complaints had been made the last two years of Swift's arsenate was that it had been changed from an alkali to an acid arsenate in that time.

The cost of Bordeaux and lime-sulphur spray was about the same when purchased but if the lime-sul-

DISTRESS FROM UPSET STOMACH

Also Misery From Indigestion Vanishes Five Minutes Later.

Take your sour stomach—or maybe you call it indigestion, dyspepsia, gastritis or catarrh of stomach; it does not matter—take your stomach trouble right with you to your pharmacist and ask him to open a 50-cent case of Pape's Diapiesin and let you eat one 22-grain triangle and see if within five minutes there is left any trace of your stomach misery.

The correct name of your trouble is Food Fermentation—food souring; the digestive organs become weak, there is lack of gastric juice; your food is only half digested, and you become affected with loss of appetite, pressure and fullness after eating, vomiting, nausea, heartburn, griping in the bowels, tenderness in the pit of stomach, bad taste in mouth, constipation, pain in limbs, sleeplessness, belching of gas, biliousness, dizziness and many other symptoms.

If your appetite is fickle and nothing tempts you and you belch gas or if you feel bloated after eating, or your food lies like a lump of lead on your stomach, you can make up your mind that at the bottom of all this there is but one cause—fermentation of undigested food.

Prove to yourself after your next meal that your stomach is as good as any; that there is nothing really wrong. Stop that fermentation and begin eating what you want without fear of discomfort or misery.

Almost instant relief is waiting for you. It is merely a matter of how soon you take a little Diapiesin.

Diapiesin is made at home it was much the cheaper of the two.

A good way to fight the aphid is to use a solution of one gallon of black leaf sheep dip to seventy-five or eighty gallons of water.

President Helps Orphans.
Hundreds of orphans have been helped by the president of The Industrial and Orphan's Home at Macon, Ga., who writes: "We have used Electric Bitters in this institution for nine years. It has proved a most excellent medicine for stomach, and kidney troubles. We regard it as one of the best family medicines on earth." It invigorates the vital forces, purifies the blood, aids digestion, creates appetite. To strengthen and build up thin, pale, weak children or run-down people it has no equal. Best for female complaints. Only 50c at all druggists.

HAVE DIAMOND JUBILEE
Methodists Celebrate Birth of Church Missions at Washington, D. C.
Washington, Jan. 18.—In the Metropolitan Methodist Episcopal church in this city Methodist Episcopalians celebrated with prayer and music and addresses the diamond jubilee of the beginning of the missionary movement of the church. Seventy-five years ago the church sent out its first missionary in the person of Melville B. Cox, who landed on the west coast of Africa in Liberia, and began the work that has now spread to all parts of the civilized and uncivilized world.

President Roosevelt and Vice-President Fairbanks spoke at the celebration tonight. Other speakers were Earl Cranston, Methodist Episcopal bishop of Washington, and Joseph C. Hartzell, missionary bishop to Africa since 1896.

One purpose of the celebration is the starting of a fund to equip in better manner the stations of the Methodist Episcopal church in Africa. There are six of these in different parts of the continent, and the cost of their work. Members were asked to contribute to that fund.

GOVERNOR TO RUN HIMSELF
Gomez to Be Inaugurated January 28 and Americans Will Withdraw.
Havana, Jan. 18.—On January 28 at noon the Cuban people will come into their own for the second time at the hands of the American government. It was on May 20, 1898, that the American flag, hoisted after the war with Spain, was hauled down in favor of the blue-striped, single-starred ensign of Cuba.

The inauguration of Jose Miguel Gomez, the new president, on January 28, will take place at the palace at noon. Several American warships will fire a national salute, but neither United States sailors nor soldiers remaining on the islands will participate in the inaugural parade, as their presence might detract from the pride of the people in the return of native sovereignty.

TO SEND BUILDING MATERIAL

Roosevelt's Plan to Aid Sufferers by Recent Earthquake in Italy.

Washington, Jan. 18.—An innovation in international relief measures so far as Europe is concerned will be undertaken by the government in expending the \$500,000 appropriated by congress for the Italian earthquake sufferers. Realizing that a great need among the sufferers will be shelter, President Roosevelt has decided to send to Italy material for the construction of 2500 or 3000 substantial but modest frame houses.

Verbal instructions were given by the President to Secretary Newberry to enlist the machinery of the navy department. Mr. Newberry has already been able to make partial arrangements for carrying out the orders of the President.

The bodies of the American Consul, Arthur S. Cheney and Mrs. Cheney have been found in the ruins of the American consulate at Messina by the sailors of the American battleship Illinois. Arrangements are being made for the shipment of the bodies to the United States.

An estimate of the dead in Messina as a result of the catastrophe of December 28, made by Stuart K. Lupton, the American vice-consul, on behalf of the American embassy at Rome, places the number at 50,000.

WHOLE FAMILY KILLED
W. L. Seeley, Wife and Daughter, of Seattle, Found Dead.
Seattle, Jan. 18.—W. L. Seeley, an attorney and ex-national bank examiner for Illinois; his wife, a member of the National Society of Daughters of the American Revolution, and his daughter, Miss Rene Seeley, a student at the University of Washington, were found dead in a bathroom of their home in the fashionable Capitol Hill district at 1 o'clock Sunday afternoon. They had been dead since the previous Thursday.

The women, each of whom was clad in nightgowns, had been murdered by being struck in the head, evidently with a hammer. There was no mark of violence on Seeley. He is believed to have been partially chloroformed and then drowned in the bathtub. All three were kneeling at the bathtub with their heads submerged in the water.

The bodies were found Sunday by Guy M. Smelzer, affianced husband of Miss Seeley, and E. R. Zibbell, a friend of the family. The police detectives searched the house for the weapon with which the murders had been committed, but were unable to find any bloodstained implement. No jewelry or other article of value was taken from the house.

Late developments taken as strengthening evidence that the murders were committed by a common and then a suicide. The man recently received \$8000 as his share of his father's estate, but within the past few days he had borrowed money to pay his last month's house rent, indicating that he was in financial straits.

Seeley is an uncle of M. F. Gose, of Pomeroy, recently appointed by the governor to the Washington supreme bench. He has a brother, Charles, at Pomeroy, and another, Frank, at Hood River, Oregon.

BARBER IS VERY EXPENSIVE
Man Who Shaves Presidential Beard Paid \$1600 Yearly.
Washington, Jan. 18.—The recommendation of the auditor for the navy department that congress provide more clerks for his office has raised some question concerning the employment of William B. Dulany. Dulany for several years has been President Roosevelt's negro barber. Last March he was appointed a "special accountant" in the navy auditor's office at a salary of \$1600 a year, but continued to serve as the Presidential tonsorial artist. It is reported the appropriation committee of the house, at the instance of several members who want to "get even" with the President, will investigate the matter and ask why the navy auditor's office should pay for his daily shave.

MOYER LOSES SUIT
Sued Colorado Executive for Damages as Result of Imprisonment.
Washington, Jan. 18.—The supreme court of the United States today decided against former President Moyer of the Western Federation of Miners, in the damage suit brought by him against former Governor Peabody, of Colorado, on account of Moyer's imprisonment on the governor's orders, because of his alleged connection with riots at Telluride, Colo., in 1904.

SEATTLE MAN GETS BRIDE
Charts Special Train to Get Over Boundary.
Portland, Or., Jan. 18.—Denied a license to marry in Oregon because of the non-residence laws of this state, H. R. Rood, vice-president of the Pacific Crosscutting Company, of Seattle, chartered a special train Saturday afternoon and went to Vancouver, Wash., where he and Mrs. Edward G. Stolber, of Denver and Paris, widow of the late E. G. Stolber, were married.

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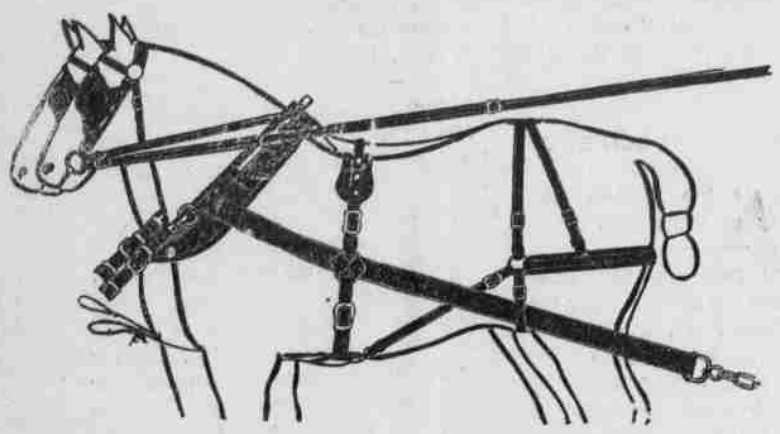
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