

### SOME SUGGESTIONS TO ORCHARDISTS OF JACKSON COUNTY

Since the question has been frequently asked whether or not the apple orchards should be sprayed with Bordeaux mixture this fall, I think it advisable to make the answer public.

Two reasons are usually given for the use of Bordeaux as a fall or winter spray on the apple orchards of this section. First, for the control of the apple tree anthracnose, and second, as a general sanitary measure. The second of these reasons is of such questionable value that we need not consider it at this time, but the control of anthracnose is extremely important, since next to apple scab, it is probably the most serious fungus disease of the apple with which we have to deal. The spores of the fungus are distributed in the fall and infection takes place shortly after the rains begin, hence a spray for its control must be applied early enough in the season to prevent spore germination. It is very important that every orchard be carefully examined at this time, and wherever anthracnose cankers are found to be present, the orchard should be sprayed with Bordeaux mixture, 6-6-50 formula, as soon as possible after the crop is harvested. This applies not only to cankers of the current year's development, but also to those of two years' standing, since these are ready with their second crop of spores for distribution.

For the benefit of those who may not be familiar with the symptoms of the disease, the following brief description is given: Cankers begin to develop soon after the fall rains set in. They first appear as small circular reddish-brown spots on the surface of the bark. Beneath these the bark tissues are discolored and water soaked in appearance. The discoloration soon extends to the cambial region, where it frequently becomes more widely distributed than would be suggested by the surface area. The spots develop very slowly or not at all during the winter, but spread very rapidly in the early spring, and by the middle of May have reached their full size. The diseased area soon becomes dried, sunken and separated by a crack from the surrounding tissues. This depressed condition of the canker usually becomes more prominent later because of further drying and shrinking and by the formation of callus tissue at the edge under the dead bark. In mid-summer numerous small elevations may be seen in the bark of the canker. They are at first somewhat conical in shape, but later rupture, exposing a cream-colored mass of fungus tissue. These are the fruiting structures of the fungus and produce spores in great abundance. The bark of the older cankers frequently become loosened at the edges and drops out. It may, however, adhere for two or even three years, each fall maturing a crop of spores. These mature cankers may vary in size from one-half inch in diameter to eight or ten inches long and two or three inches wide. Frequently larger cankered areas are formed by several of these spots becoming confluent.

#### Fall Treatment for Apple and Pear Scab

Another question frequently asked is whether or not some spray may be applied this fall for the prevention of scab next season. Such a thing is not practicable, for the reason that the fungus which causes the disease is well protected within the leaves and cannot be reached except by something that is penetrating enough to destroy the tissues of the leaves themselves. All our spray mixtures are primarily for surface disinfection and would not serve the other purpose. The diseased leaves are the chief source of early spring infection and should be destroyed this fall or winter. This can be most readily accomplished by plowing them under, but in cases of necessity they might be raked together and burned. The scab is the most serious fungus disease of the apple and pear in the northwest and we should not forth every effort to check its further progress in this valley.

#### The California Peach Blight and Fruit Spot

The California peach blight has been observed to be very abundant this year in the Rogue River valley. This is one of the most serious of peach diseases and should be given careful attention by all peach growers in this county. It is characterized by a dying of the buds on the fruiting wood and by a splitting of the bark on branches of the current year's growth. Exudation of masses of gelatinous sap is very common and is one of the chief symptoms of the disease, particularly in wet weather. The buds may be killed either before spring or after the leaves are out and the young fruit set. The effects of the trouble are usually first apparent in the under

### BERLIN ASSERTS BOMBARDMENT OF ANTWERP BEGUN

LONDON, Oct. 9, 10:40 a. m.—The official communication of the German staff, given out at Berlin in the evening of October 8, is contained in a dispatch to Renter's Telegram company from Amsterdam. It says: "From the western scene of war no facts of decisive importance can be mentioned. Small progress has been made near St. Mihiel and in the Argonne.

"Before Antwerp, Fort Breendonk (to the south of Antwerp) has been taken and the attack on the inner fort line has begun therewith. The bombardment of the quarter of the town lying behind was begun after the declaration of the commander of the stronghold that he took the responsibility.

"The airship hanger at Dusseldorf has been hit by a bomb thrown by a hostile aviator. The roof of the hall was pierced and the cover of an airship demolished.

"In the east the Russian column is marching from Lomza (Russian Poland) and has reached Lyek, in east Prussia, just beyond the frontier and almost directly west from Augustowo."

branches, and it is not uncommon to find a tree with only the topmost branches healthy. The fungus also causes a very characteristic spotting of the fruit. The spots begin as small purplish-red dots, which gradually enlarge as the disease progresses and become lighter colored at their centers. The older spots turn brown and often become confluent, thus forming larger cankered areas. Badly infected fruits frequently decay and exude a gummy substance similar to that which appears on the twigs. The leaves also may show considerable spotting and later a shot-hole effect due to the action of the fungus.

In California it has been found that the disease can be kept under control by regular fall spraying with Bordeaux mixture. Experiments conducted near Ashland about six years ago also demonstrated that the disease can be controlled in that vicinity by proper methods of spraying. It is advised that a fall spray of Bordeaux, 6-6-50 formula, be applied about the first of November. This will probably be sufficient to hold the disease in check, except in very badly infected orchards, where it may be necessary to spray again in the spring with self-boiled lime-sulphur, 8-8-50 formula.

If I can be of service to any one in these or other matters connected with our mutual problems, I shall be pleased to render that service.

M. P. HENDERSON,  
Jackson county pathologist.

#### GERMAN FISHING VESSEL DESTROYED BY MINE

COPENHAGEN, via London, Oct. 9, 6:55 a. m.—A German fishing vessel has been blown up by a German mine in the Langeland belt, north of the coast of Denmark. The captain was killed, but the rest of the crew were saved.

#### The Weather

Tonight and Saturday—Rain west.

#### Severe Blood Troubles Vanish

With Magic Effect, Great Remedy Makes Disease Disappear.



At almost any drug store you may obtain S. S. S., the famous blood purifier, and you then have the veritable wizard that makes all blood troubles vanish. Your stomach takes kindly to S. S. S. It rushes into your blood, is a purifying wave, makes the liver, kidneys, bladder and skin work in harmony; stops accumulations that have caused rheumatism, catarrh, swollen glands, sore throat and skin eruptions.

Just as food makes blood, so does S. S. S. follow the process of digestion to stimulate natural secretions to protect us against the ravages of disease germs. We are well aware of the fact that these germs are apt to be latent within us to break forth in violent eruptions of the skin whenever the system is in a low state of resistance. And it is to both prevent these eruptions and to get rid of them that Nature gave us such an ally as S. S. S. It is purely vegetable, contains no mercury, and yet it overcomes those serious troubles for which mercury has been employed for ages. In very common cases are people who know this to be true. They owe to S. S. S. their recovery. Get a bottle today. Refuse all substitutes. Read the folder around the bottle that tells of the wonderful work being done by the medical department in assisting users of S. S. S. For a special sack on blood troubles address The Swift Specific Co., 51 Swift Bldg., Atlanta, Ga.

### GERMANY NEED NOT CONSIDER WORLD'S OPINION

BERLIN, Oct. 8, via London, Oct. 9, 2:45 a. m.—It is officially announced that the Germans continue to make progress at Antwerp and that they are already over the flooded area along the river Nethe.

A writer in the Militar Wochenblatt, however, late last night warned the people against an excessive optimism regarding Antwerp, as the garrison of the fortress there is still able to continue a desperate resistance.

The newspapers are printing President Wilson's reply of September 16 to Emperor William's communication in which he reported the finding of dum-dum bullets at Longwy and protested against the way in which the war was being waged by Germany's opponents. President Wilson's reply in effect was that it was unwise to express a final judgment on the dum-dum protest and expressed the opinion that an accounting would come with the war's conclusion, when the nations will assemble to make a settlement. The newspaper comment on this reply is most friendly and is to the effect that any other answer could not be expected.

The Tages Zeitung, in this connection, says:

"We have a clear conscience from the viewpoint of justice and humanity in this war and can look the world unflinchingly in the face. We, however, do not need to regard the public opinion of the world. In the last instance, the German people, united with the emperor, are alone competent to decide the correctness of Germany's course."

Crop reports for October show that potatoes, sugar beets, clover and alfalfa are middling to good. Autumn planting is making good progress, despite the earlier drought.

#### INDICT WM. LORIMER FOR CHICAGO BANK FRAUD

CHICAGO, Oct. 8.—William Lorimer, voted out of the United States senate after an investigation on the ground that he had not been legally elected, was indicted in the federal court today on a charge of misappropriation of the funds of the La Salle Street National bank, the forerunner of the defunct La Salle Street Trust and Savings bank. Lorimer was president of both institutions.

Judge Carpenter asked the foreman of the grand jury whether investigation of the case had been concluded. The latter replied that it had not.

#### This Lung Remedy Known Fifteen Years

If everybody who suffers from or is threatened with Lung Trouble would investigate the many cases where recoveries were brought about through the use of Eckman's Alternative, a remedy which has stood the test for nearly fifteen years, a strong opinion in favor of it would be the result. What it has accomplished for others it may do for you. Read this:

"Gentlemen: Last December I took a sudden cold, which developed into Pneumonia. The doctor did all he possibly could for me, but could not clear my lungs. One day I saw a testimonial in one of the papers telling of the good results someone had from taking Eckman's Alternative for a trouble of the lungs. I began taking it and soon felt good results. My lungs began to clear up and I began to gain in strength and was soon well enough to take up my work again. I am in better health now than I have been at any time. I am a missionary worker for the New York Home for Homeless and Friendless Boys."

(Address) ECKMAN, P. WILCOX, (Above abbreviated, above on request) Eckman's Alternative has been proven by many years' test to be more efficacious for severe Throat and Lung Affections, Bronchitis, Rheumatic Asthma, Stomach Catarrh and in unobscuring the system. Contains no narcotics, poisons or habit-forming drugs. Ask for booklet telling of recoveries, and write to Eckman Laboratory, Philadelphia, Pa. for evidence. For sale by all leading druggists.

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Boys' and girls' class enrolled Saturday, October 10, 10 a. m.

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Auditorium, Baptist church building, corner North Central and Fifth street.

The large room and platform is ideal for all vocal work. Home circle classes, also private lessons in students' homes can be engaged. See instructor or drop card, General Delivery, Medford, Ore.

### HOW TO MAKE FINE TABLE SYRUP OUT OF APPLES

WASHINGTON, D. C., Oct. 9.—Following extensive experiments begun last spring, the head of the fruit and vegetable utilization laboratory of the department of agriculture has applied for a public service patent covering the making of a new form of table syrup from apple juice. This patent will make the discovery, which the specialists believe will be of great value to all apple growers as a means of utilizing their culls and excess apples, common property of any elder mill in the United States which wishes to manufacture and sell elder syrup.

#### Syrup From Cider

The new syrup, one gallon of which is made from seven gallons of ordinary cider, is a clear ruby or amber colored syrup of about the consistency of cane syrup and maple syrup. Properly sterilized and put in sealed tins or bottles, it will keep indefinitely, and when opened, will keep under household conditions as well as other syrups. It has a distinct fruity aroma and special flavor of its own which is described as being practically the same as the taste of the syrupy substance which exudes from a baked apple.

The syrup can be used like maple or other syrups for griddle cakes, cereals, household cookery, and as flavoring in desserts. The government cooking experts are at present experimenting with it in cookery and expect shortly to issue recipes for use of the new syrup in old ways and for taking advantage of its special flavor in novel dishes.

#### Try It in Hood River

The department chemists have already produced over ten gallons of this syrup in their laboratories, using summer and other forms of apples. The success of the experiments has greatly interested some of the apple growers, and during October a large cider mill in the Hood River valley, Oregon, will in co-operation with the government chemists, endeavor to produce 1000 gallons on a commercial scale and give the new product a thorough market test by making it accessible through retailers in a limited field. The interest of apple growers in the product arises from the fact that the new apple cider syrup promises to give them

a commercial outlet for vast quantities of windfall and other apples for which they hitherto could find no market either in perishable raw cider or in vinegar. Cider production, it seems, comes largely at one season, of the year during which the market is more or less flooded with this perishable product. The bulk and perishability of the raw cider, moreover, the elder makers state, often make it unprofitable for them to ship the raw cider of one district long distances to a non-apple-growing region. The market for cider, therefore, has been largely restricted in many cases to localities near the area of production. No method of sterilizing ordinary cider has been found practical for the reason that boiling elder at once interferes with its delicate flavor.

With the elder mill able to make a palatable, long-keeping table syrup out of its apple juice, growers, it is believed, will be able to use all excess juice for bottled or canned apple syrup. The new syrup, the specialists find, will keep indefinitely, so that the cider makers can market it gradually throughout the year.

#### Process of Manufacture

The process for making the syrup calls for the addition to a cider mill of a filter press and open kettles or some other concentrating apparatus. The process is described as follows: The raw cider is treated with pure milk of lime until nearly, but not quite, all of the natural malic acids are neutralized. The cider is then heated to boiling and filtered through a filter press, an essential feature of the process. The resultant liquid is then evaporated either in continuous evaporators or open kettles, just as ordinary cane or sorghum syrup is treated. It then is cooled and allowed to stand for a short time, which causes the lime and acids to form small crystals of calcium malate. The syrup is then re-filtered through the filter press, which removes the crystals of calcium malate and leaves a syrup with practically the same basic composition as ordinary cane syrup. Its flavor, however, and appearance are distinctive.

Calcium malate, the by-product, is a substance used in medicine and at present selling for \$2 per pound. It is believed that if calcium malate can be produced in this way cheaply and in large quantities, it can be made commercially useful in new ways, possibly in the manufacture of baking powder.

The cost of making this syrup on a commercial scale will be determined during the test in October.

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# LOST?

## \$696,967,261.00-

Before the first guns had thundered forth their message of European strife, America had begun to pay the penalty of fear and uncertainty. In one short week the quotations of 105 leading American securities had shrunk \$696,967,261.00.

But it was not a shrinkage of American making. It was a result of the desire of European security holders to trade their securities for cash. Cash is a handy thing in war times.

War means ordinarily peaceful merchants shooting guns at normally peaceful farm hands; factory operatives busily engaged in sabering machinists; baker boys galloping madly about on horses which ought to be hauling bread.

Business and War have nothing in common. When war stalks abroad Business goes elsewhere, and Money is the boon companion of business.

When Europe sold back to us millions of dollars of securities it was in an effort to obtain money with which to later purchase from us some of the things Europe must have. Europe is an old customer of ours, but she is expecting to buy now more largely than ever before, and her \$300,000,000 income from globe-trotting Americans will probably be missing this coming year.

Meanwhile, Europe has been compelled to shut up her own shop. There are new faces looking at us across our counters and fingering our goods. Europe used to number them among her customers.

Let's straighten up the counters and dust off the shelves. It looks as if business was going to be brisk and we might as well be ready. And if it is necessary to hire extra help to look after trade, we'd better start looking around for it now.