

Turpentine From Pine Stumps.

Near Hinckley, Minn., a factory was recently established for the extraction of turpentine from pine stumps. Enough is not yet known of the industry to make any definite statement concerning the profitability of utilizing the pine stumps in the cut-over lands of Wisconsin, Minnesota and Michigan. However, the experiments to date indicate that these stumps, instead of being a drawback to the land, are a positive asset, and that turpentine can be extracted in paying quantities. The future of the industry is briefly described by Mr. E. G. Church, who is largely interested in the plant at Hinckley, and concerning which he says: "I was at first inclined to be skeptical of the proposition, but a recent trip and full investigation convinces me that the turpentine factory is to be the greatest possible boon to the cut-over sections of the northwest. The proposition makes the old pine stump problem simple, for the labor of extracting those to prepare the land for agricultural purposes is more than paid for by the turpentine secured from them. In other words, the removing of the stumps is a profitable undertaking. "The plant now established is 11 miles east of Hinckley, and has been in operation three months. In this section the stumps of turpentine stumps from the trees being killed by the process. Because of this there is a perceptible shortage. The new process is simply to boil the turpentine out of the old stumps and roots. The timber has been cut in the winter while the stumps and roots. This is covered tight and the fire is started under the boiler. "A copper pipe leads from the boiler to the still or worm, which condenses the turpentine. The turpentine from the still is collected, and finally, when the process is complete, the charcoal is lifted out and becomes a source of profit. Three men can run four big boilers, each of which contains five cords of stumps. It requires five days to complete the process. "It will be seen that 20 cords of wood are worked up in five days. From this mass 400 gallons of turpentine, 600 gallons of tar and 100 bushels of charcoal are secured. The turpentine is worth 65 cents per gallon, the tar 10 to 12 cents and the charcoal 10 to 12 cents per bushel. Thus it will be seen that about \$380 worth of stuff is secured from five days' work. Besides the turpentine, the three men, the stumps would cost \$3 per ton, and eight to ten cords of wood rubbish, costing \$1.50 per ton, is required for the fuel. "There seems to be an unlimited demand for the products from stumps distillation. The turpentine is much stronger than that usually obtained, and the charcoal is of much better quality. About the only risk is in regaining the heat. Once in a while a kiln full is lost by being heated to the burning point. This process of securing turpentine has been used in Russia, Norway and Sweden for a number of years, and the only surprising thing about it is that Americans have not adopted it sooner."—Orange Judd Farmer.

The War Over Apples.

A grave dispute is raging among apple growers as to the relative merits and superiority of the Ben Davis and Jonathan varieties, and King Ben Davis is likely to be disposed. He has retained so long as the king of the apple tribe, it really seems like sacrilege to admit there could be any better but Brother Jonathan is playing the part of the pretender and rallying many forces to his standard. It is enough to bring a blush of shame to the cheek of Ben Davis, this Servian method of dealing with royalty. But Ben has just secured a new champion, and one who speaks with authority, none other than Dr. J. C. Whitton, dean of the Missouri Horticultural college and president of the State Fruit Growers' association, who says: "I am for Ben Davis first, last and all the time, and am prepared to back up my opinions with facts and figures. I am receiving daily statistics and reports from apple dealers and fruit growers all over the state. The Ben Davis is the best apple for a good many reasons. In the first place, it is the best shipper and reaches foreign countries in better condition than any other apple. I know of a recent test that clearly proved the superiority of the Ben Davis. It was made with a large shipment of American apples of many varieties to Germany. When the barrels containing test apples were opened in the market at Hamburg it was found that the Ben Davis had crossed the water in much better condition than the other varieties. The Ben Davis is a gross favorite in Germany. Trade reports say that Germany is importing more of them than any other variety, and is at present paying better prices than ever before. England rather prefers the Albemarle Pippin and buys them at higher prices than any other American apple, though the demand is rather limited. The next in popularity in England is the Ben Davis, showing which came the Greening and the Baldwin. American apples are becoming more in demand in Europe each year, even in Germany, France, Russia and Austria, which produce apples of their own. Germany is the best buyer and demands the Ben Davis in preference to all other varieties." "Go it, Ben Davis, go it Brother Jonathan. Personally, I favor settling the dispute by submitting a barrel of each to every newspaper editor, his decision to be beyond appeal."—Iowa State Register.

Bacterial Disease of the Pear and Apple.

L. F. Henderson, Idaho Experiment Station—Spring is now upon us—the time when the careful horticulturist must be prepared to combat those many ills incident to fruit culture, whether of an insect or of a fungous nature. Of all these probably the fire blight is the worst and most to be dreaded. The name "fire blight" is the proper one to use; it should not be called "pear blight" for two reasons. In the first place it is liable to be confused with the pear blight, a disease which attacks the leaf of the pear, and incidentally injures the fruit. In the next place this disease is not limited to the pear; it is fast becoming too common on the apple as well. In our state, in many states it attacks all of the pomeaceous fruits, such as pear, apple, quince, crab and hawthorn. Three years ago, this disease was unknown to the writer in the southern part of the state; today, there is hardly an orchard in certain districts which does not show some blight, and in many it is very serious. In Northern Idaho it has been in our pear orchards for over 10 years, but luckily it has not so far attacked the apple. From the devastation this disease is causing in the Southern Idaho the northern portions of the state will be long exempt. Though this trouble has been known as working havoc in orchards for a century or more, it is only in comparatively recent time that its true nature has been well understood. For a long period of years the discussions of this trouble were of such a theoretic nature that many horticultural societies forbade its being brought up in

their meetings, unless some one had something of absolute knowledge to offer about it. Various causes were ascribed for its presence, such as "sour sap," "atmospheric condensation," "soil conditions," and "effluvia" from the "fungal" fungus. In 1897, however, Professor Burrill of Illinois discovered the true cause and announced his discovery to the world. This was found to be bacterial disease, due to the presence of myriads of little germs in the inner bark and cambrium. The germ was called by Professor Burrill Micrococcus amylovorus from the earnestness with which it attacks upon and devours the starch in these tissues. From the subsequent studies of Arthur at the Geneva Station in New York, and of Waite in the U. S. Department of agriculture we know how this germ or bacterium lives, produces itself and is carried from tree to tree.

Luckily the disease is a very conspicuous one, which renders its presence in an orchard the more inexcusable when well known. It affects twigs, leaves, young fruit, and even the branches or trunks. From the experiments of Waite, it has been found that it cannot attack the plant through the uninjured bark or leaf. It can, however, enter through any injury to the bark, or through the leaf, or through the numerous points of entrance are natural ones. These are the young growing tips of the branch, the opening of the flower, or the glands which secrete nectar. Therefore, the "flower blight," the "twig-blight" and the "branch or trunk blight" are all forms of this disease.

In the first, the young twig, especially if it be growing rapidly, turns black in both leaf and stem, and wherever the leaves are blighted they remain black and dead through the ensuing winter. This black, plastical flag is the surest evidence of its presence.

In the "flower-blight" a whole bunch of flowers, or frequently every bunch upon the trees will be affected and dying back to the beginning of the spur-bud, the blackened flowers and young fruit also the entire year. This is the most form on the apple. Frequently an entire limb or even the trunk will be affected for only a short distance, while the top will still be entirely free from the disease, and this can only be understood when we speak of how the disease is spread. More frequently upon the pear several limbs and even the whole trunk will be affected, and when this is the case the tree should be cut out and burned.

If the young shoots of a tree affected with blight be examined, small drops of sticky, thick fluid will be found exuding from the edge of the diseased area. If out of these drops be examined with a high power of a microscope, myriads of little oblong bodies will be seen, some separate, some in short chains. These are bacteria. Arthur proved that if a healthy tree be inoculated with a sound tree by a needle, would produce the disease. Waite proved to beyond doubt that insects, especially bees, are the main instruments in their dissemination. They are attracted by the sweet sap, and up part or all of the drop, and then carry thousands of these germs with them to inoculate flowers, shoots or wounded places in the bark. Undoubtedly heavy currents of wind assist in spreading the disease, and probably account for the commonness of "twig-blight." The question comes right here: Shall I keep bees if I have an orchard? Certainly, and for two reasons. First, the honey, and the revenue derived from it, are of great value to the farmer. Second, the bees are absolutely needed to assist in proper cross-fertilization or pollination of the flowers. This leads us to the subject of remedies, for preventives there are none.

As soon as the bacteria are carried to a young flower or wound, they effect entrance, and living upon the sap and starch, multiply rapidly. If they gain entrance along a limb or trunk, they live in the inner bark and cambrium-layer—that layer which adds yearly to the growth of both bark and wood. It can readily be seen from this that they are well covered and consequently spraying does no good. The only remedy thus far found has been and is the careful and continuous use of the saw and pruning knife. All diseased shoots and limbs should be cut off at from six inches to one foot below the place of evident infection or injury, as the bacteria have always gone down deeper into the limb than seems to be the case from the outside. Many pruners have the habit of splitting down the pear or apple orchard, and knife how far the disease has proceeded, or saw should be sterilized each time it is used, by either passing it through, or dipping it into weak carbolic acid water, or into kerosene. The pruned limbs or fragments should be collected and burned and both pruning and burning should be done mainly in the dormant season, before the sap has started, and the bacteria have awakened, and the bees are visiting the orchard. This is the best time for pruning and burning, but not the only one; it should be done whenever the disease makes its appearance. All large wounds should be painted over with paint as soon as the tree is trimmed, to prevent the re-inoculation, through the exposed tissues. Where the blight is bad, even young shoots or water sprouts should have their cut bases painted, for it has been shown again that the limbs and even trunks have been inoculated through these cut stubs.

Better Irrigation Laws Needed.

A. D. Stillman writing for the Echo News regarding irrigation and other things says: "With reference to the need of a merely irrigator in the legislature, I merely suggest that in a rather extensive practice in irrigation law, as well as practical experience with irrigation, I have found that it is not the broad general laws that are particularly defective in this state, because the general principles that can be broadly applied are, in my opinion, sufficiently well understood by the lawyers of the state, but that it is on the smaller matters, the question of distribution, management of the stream, the division of the water between neighbors holding small tracts, and upon matters relating to the use of streams, that legislation is required. It is an account of these questions that there should be in the legislature at least one man who has had actual experience with the handling of the water on the ground and the practical experience of many small difficulties that breed litigation."

Mineral Resources of Oregon.

Prof. O. F. Stafford, University of Oregon, has issued Mineral Resources of Oregon, published by the University at Eugene. This is the most authentic and comprehensive account of the mineral industry of the state ever issued. Practically all the more important known mineral deposits of the state receive mention in the 116 pages devoted to the Bulletin. A large map of the mineral deposits of the state is inserted, and several beautiful full-page illustrations. A list of known mineral deposits, such as antimony, asbestos, barite, borax, cement, chromite, etc., are arranged alphabetically, and location of deposit given, followed by descriptive articles on the distribution of placer gold, beach gold and its source, and dredging operations in Oregon. A list of the mining districts of the state is given, and the properties in such districts well written up. Oregon has long needed such descriptive matter and the Bulletin cannot help but prove to be of advantage to the state. Prof. Stafford is to be commended for his work, which has been accomplished under many adverse conditions. The Bulletin may be obtained from the University at Eugene for 50 cents.

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A Back Number.

We are in receipt of a booklet on Oregon, sent out by the publicity department of the Lewis and Clark exposition at Portland that is made up of old statistics in many instances, and contains information, hastily compiled and not up to date. If the statistics of other countries are as old and out of date as those of Wasco county, in this book purporting to show the "resources of Oregon," it is a colossal blunder on the state. There is no reason why such a publication should not be carefully compiled and information given that will show up the country in a favorable light as possible. The wonderful advancement that has been made in Oregon during the past few years, demands a complete revision of the old statistics of five and ten years ago. New sections are being developed in the state that are now lively commerce, centers and prosperous and thickly settled farming communities, which a few years ago were deserts or a wilderness.

Water course—Columbia and Des Chutes rivers.

Farm land—average price per acre \$10. The above strating array of figures has apparently been made from records at The Dalles, of ten years ago, before Hood River had gained a national reputation for its idea that a single acre is correct as it applies to Hood River. The learned and gentlemanly scholar who collected this information should scrape a little more off his back and get out of Portland long enough to find that up to about 60 acres, the average price of the present times is a section of the state that has become better known all over the world through commercial channels than the city of Portland. There are thousands of people in the United States who have been buying property in Hood River strawberries and apples, but who have never been west of the Rocky Mountains, who know that Hood River is the greatest section of Oregon, and have to get to Portland in a small steambot, landing somewhere near the mouth of the Columbia or in a suburb of Seattle.

As to the first item, the value of the farm land of Wasco county, of \$3,980,000, it does not include the first ten miles of the Hood River valley.

The value of orchard products is given at \$250,000, and the amount will not buy the orchard crop of the valley, while the strawberry crop alone this year will amount to nearly that sum. The annual rainfall is given at 15.2 inches, which may be true as to The Dalles, but it ranges from 35 and 40 inches at Hood River to over 90 inches at Cannon Beach.

Only a portion of the soil in this valley is sandy loam, the apple land being mostly deep clay soil, containing volcanic ash and iron, while the Columbia and Deschutes rivers are not the only streams on the map of Wasco county. The average price of farm land is given at \$10 an acre. It has been a long time since the poorest tillable land in Hood River valley, from the Columbia to the mouth of Mount Hood, could be bought for \$10 an acre, and the present value, is a better bargain than any \$10 land has been had in Oregon. \$100 an acre has been refused for our best bearing orchards.

A Visible Object.

A testy old gentleman forced to lay over an hour in Dull Town was cursing his fate, when a well-mannered citizen strolled into the station and essayed conversation. Taking the many labels on the visitor's bag as a leader, he said:—"You've travelled about quite a bit?"—"Yes."—"Ever seen a 'Injun'?"—"Many a one."—"Ever seen a Chin?"—"Thousands of them."—"Ever seen a Jap?"—"Yes."—"Ever seen a Jew?"—"Yes, D—."—"Ever seen a—?"—"The testy old gentleman could stand no longer, and, rising to his full height, he uttered a series of torian tones, "Did you ever see a fool?"

Summons.

In the Circuit Court of the State of Oregon for Wasco County. Frank Davenport, plaintiff, vs. Frank C. Wilson, defendant. To Frank C. Wilson, the defendant above named: You are hereby required to appear and answer to the within complaint, filed in the above entitled suit in the above named court on or before the expiration of six weeks from the date of the publication of this notice; and you are hereby notified that if you fail to do so, judgment will be taken against you for the relief prayed for in said complaint, to wit: Judgment for the sum of \$200, with interest thereon at the rate of 10 per cent per annum from October 8, 1903, and for costs and disbursements of this suit, and a decree enforcing the mortgage mentioned in said complaint, and directing that the real premises therein mentioned be sold on execution, and that the proceeds of such sale be applied in payment of the debt and the satisfaction of such sale and of this suit, and to the satisfaction of such sale, and you are hereby notified that if you fail to do so, judgment will be taken against you for the relief prayed for in said complaint, to wit: 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