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THEOLOGICAL. Ah, he said, as the postman handed him a letter, an epistle? No, said his wife as she opened the

BUISTEROUS.

mendously loud. of a silk hat!

THE FARM.

TO DESTROY THEM.

through insects was very great. Ontario there were 10,000,000 apple trees, 6,000,000 of which were in bearing. These apples, but only a few of them were tables at our hotels were a disgrace to there was no reason why 80 or 90 per cent. of the fruit should not be perfect. In some cases 100 per cent of perbeen demonstrated to be a success, and the fruit was larger, cleaner, brighter and possessed superior keeping qualities. People are gradually awaking to forever. By far the best remedy is the fact that the spraying is indispensable to the up-to-date orchardist.

There had been catalogued, 356 species These were divided into two classes, acmouths.

erpillars and beetles. 2nd, Suctorial insects, such as lice and

poison on their food. The second were stances to treated by using some solution which GRUB UP AND BURN INFESTED killed by contact.

For Masticatory insects, Paris Green It will pay in the end. The latest should be used, 1 lb. to 200 gallons of bulletin published by the Ohio Agriwater for apples. For suctorial insects, Kerosene Emulsion should be applied. To make Kerosene Emulsion take Residence.-First door west If the Hard soap, 1-2 pound, or soft soap, 1 qt. Boiling water, soft, 1 gallon.

> 5 to 10 minutes. When properly mixed, it will adhere to glass without oilifrom 9 to 15 parts of water. Kerosene no soap being required. This will not keep long. For Scale, Bordeaux lbs., Water 40 galls. It is usual to add the Paris Green to the Bordeaux mixtion should be made just before the before the blossoms open, the third just after the blossoms have fallen, fourth and subsequent spraying at intervals of 12 to 14 days, as long as there was danger of scale. 75 per cent. of the so-called spraying was not spraying at all, the trees were only drenched, the spray should be broken like a fag, and when the sun was shining you could see a rainbow around the nozzle.

Don't drench the trees, spray them. A great deal of care should be taken in selecting a pump, the points to be looked to are:

1, Ease of operation.

2, Evenness of distribution.

3. Compactness.

Durability. 5. Power.

6, Agitator. A lance should be used to elevate the nozzle into the tree and a double or tri- Niagara, he sent Prof. Panton and W. ple discharge should be used as in this M. Orr to imvestigate. They soon asway work could be done much faster.

THE SAN JOSE SCALE

Probably the advent of no insect has AMES BROWN, issuer of Marriage caused such wide spread alarm in this from N. J. nurseries during the past country, as has that of the San Jose 5 years. Many of the trees had been

UGH MacKAY, Durham, Land Valu scale originated. It is known to exist Essex, Kent and Lincoln Counties. ator and Licensed Auctioneer for the in Australia, Chili, the United States Eight or ten trees had been found in County of Grey. Sales promptly attended and Canada. The first reliable infor- Wentworth Co. The government is mation that we have of it is that it acting promptly and wisely in this was found in the San Jose Valley, matter and fruit-growers and farmers California, in 1870. It was at once re- should assist them in their effort to cognized as a serious menace to the stamp out the pest. fruit-growing interest of the State. The Although it was thought two years succioneer for the County of Grey spread of the scale from the point of ago that this scale could not exist in original infestation was rapid, its area our country and that we had nothing increasing in every direction. In 1873 to fear from it, it now appears that it had become a serious pest. In 1880 the climatic conditions are favorable. Professor Cumstock said it was the That we are in its life zone is proved most pernicious scale insect known, by the rapidity with which it has muland that he had never seen any other tiplied in infested sections. Not only species so abundant and so injurious. are our orchards and our vineyards in It was not discovered east of the danger of destruction, but our forests Rocky Mountains until 1895. Now it also, except only conifers, pines and has been found in nearly every state cedars. If unchecked there is no quesand quite extensively distributed in tion, but that it would some of them. Trees from New Jersey nurseries have been the source of the infestation in the Eastern States and destroying all deciduous trees and Canada. The source of their infestation was of dollars. As to the natural enemies

per cent. of the trees being olive. we have little experience with it, the results from the use of pure kerosene. opinions of those who have known it Others have used it with partial sucfor years are valuable. Professor J. M. cess, but killed numbers of their trees. Aldrica, of Idaho says that it is the Our experience is limited, and reports most dreaded of all imsect pests, and of results of the different treatments earnest effort is made to prevent its in other localities are conflicting. There getting a foothold in new localities. In appears to be different results in dif-Massachusetts frequent occurrences ferent localities from similar treathave been found, among them being ment. to the floor. Not an epistle; a collect. special interest in view of its being ed States Department of Agriculture, special interest in view of the Washington, says: "The scale still exthe most northerly occurrence of the Washington, says: "The scale still exscale. In Talbot county, Maryland, J. ists in nurseries and orchards in near-They say Jibway's new suit is tre- H. Reid's orchard of fourteen acres, ly all the States, where it has been consisting of apple, cherry, plum and located, and there is little or no doubt

orchard of twenty acres is practically it can ever be stamped out where it all infested and many trees have died. has been thoroughly established. It is, THE COMMON INSECTS ATTACKING After a critical examination only fifty any orchard or nursery until a number The annual loss to fruit-growers In some cases the infested trees have legislation authorizing the thorough In been uprooted and burned. In other inspection, and, if necessary, the treatproduced in 1896, 56,000,000 bushels of matters are worse than they were a tificate of inspection or not. We have

vastate is better understood." It is at last realized that not only are

our ocrhards in danger, but the ex-Interest allowed on Savings Bank de- fect fruit was obtained. Spraying has threatened, should the pest once become distributed generally throughout our forests; for in that case all hope of its final extinction would be lost, and it would remain a standing menace the axe and the matchbox. Where the trees are badly infested their loss is inevitable, even should remedial treatment succeed in ridding them of the of insects which feed upon the apple. pest, for their vitality will be found to have been sapped to such an extent that they will never prove profitable. Time, money and future trouble will be saved by adopting heroic treat-1st, Masticatory insects, such as cat-ment. Moreover it is almost an impossibility to absolutely extinguish the scale when once fully entrenched without the destruction of the wood on which it nourishes. Otur first advice. The first were treated by putting therefore, is under any and all circum-

TREES.

cultural Experimental Station, dated July, 1897, says: "The presence of this insect on any one's premises is a public danger that should not be tolerated. Against this most insiduous pest both nurserymen and fruit growers are alike practically helpless in that it at first appears, and has become master. Heretofore orchards and nurseries were considered as the only ornamental trees shows that this was a mistake. It has been found on the emulsion may be prepared with sour black walnut, mountain ash, bass-wood, chestnut. It is usually the case that as we become more familiar with a species, more vulerable point is found, in its eradication. No one who has gold therefrom. buds begin to swell, the second, just not seen the work of this pest where it The fee for recording and renewing terest and at the same time affording far as any practical service is concern- est official mining recorder. A royed from natural enemies, this subject might be dismissed with these words: 'There are none.' After making experiments, there is nothing to indicate that either the fungus or the insect enemies have had, any influence even in holding the pest in check. We have

When the Hon. J. Dryden learned of the existence of the San Jose scale at certained that it hads been imported on nursery stock from New Jersey, and Mr. Orr wrote to all the nurserymen in Ontario for lists of stock imported traced and about 20 occurrences of the It is uncertain where the San Jose scale found. Three were principally in-

SOON OVERRUN THE COUNTRY.

plants and causing a loss of millions Japan plum stock imported from the of the scale as already noted, Professor San Jose Valley, California, in 1886 or Webster says there are none of any that has been effectual in every case Prof. P. H. Rolfs reports that the practical service. The only treatment orchard where the scale was first found is burning. Whale oil soup solution has is now practically killed, less than 5 failed in some cases. Hydrocyanic acid gas has not been altogether satisfac-The scale is new in Canada, and as tory. Some have reported satisfactory

Loud! why, it would disturb the nap peach from one to eight years old, are but that its dissemination is conall infested. At Riverside, E. Dow's stantly going on, and it is doubtful if

In Briggs and Showman's orchard, of therefore, impossible to say that the 20,000 acres, the scale was discovered. scale is completely exterminated from trees were found infested. On a fur- of years have elapsed." We know that ther examination within three months many American nurseries are infested, about 1,000 trees were found infested. and for our protection we should have cases thorough spraying has been giv- ing and quarantining of all nursery en them. The results from spraying stock and fruit coming into the counhave been far from satisfactory and try-whether accompanied by a cerbeen receiving from the United States absolutely perfect apples. The apples The Georgia Experimental Station fruit infested with the scale for the sold in our stores and put upon the Bulletin, 1897, says: "Two years ago past ten years, and nursery stock for few orchardists in Georgia had heard four or five years. We found Calithe country. By spraying with the growers there are aghast at the pros- and London infested with the scale, of the San Jose scale. To-day fruit fornia pears this season in Toronto proper mixture and at the proper time pect, for the power of the scale to de- which might easily have been communicated to some tree or plant. The San Jose Act recently passed by

the Legislative Assembly of Ontario provides for the inspection of suspected orchards, and the destruction of infested trees. It also provides for compensation to the extent of 1-4 the value of the trees.

The San Jose scale can be identified as follows:

1st, It is round.

2nd, It is armoured. 3rd, The bark or fruit around the scale is discolored reddish or purple. Every fruit-grower should have a pocket lens which can be had at about 50c., and should examine his trees, especially those which are not doing well, Only by co-operation can this pest be

Mr. Orr showed specimens of wood infested with the scale, and it was examined by a large number of people. -J. E. ORR.

dealt with.

CANADA'S MINING RULES.

New Regulations Issued by the Dominion

The Dominion Government has issued the amended regulations regarding placer mining in the Canadian Yukon. calamity, and uncontrolled becomes a Every miner and every employee of a miner must take out a miner's certificate, the fee for which will be ten dollars, and in the case of a company After dissolving the soap in the wat- detecting its presence, until it has fifty dollars to one hundred dollars, er, add the coal oil and stir well for ceased to be the insignificant atom according to the amount of capital stock. A miner's license will confer a right to mine, fish, hunt, and to cut ed shall be levied and collected by Govness. A syringe or pump will aid much places in special danger, but recent timber necessary for mining. Proviin this work. In using, dilute with discoveries of the pest on forest and sion for obtaining miners' certificates will be made at a number of cities and towns in Canada. Mining five hundred dollars, so that claims milk, 1 gallon, and coal oil, 2 gallons, maple, willow, poplar, birch, elm and claims will be two hundred and fifty feet wide and discoverers' claims five hundred feet. Every alternate ten mixture according to the following for- or a stage during which it can be man- claims shall be reserved by the Govern- open to entry which has not been mula:-Copper Sulphate, 4 lbs, Lime 4 aged with greater ease than at other ment of Canada, which may dispose times. It must be confessed that in of them at public auction. Subaquethe case of the San Jose scale, the ous mining leases will be issued in fivebetter we come to be acquainted with mile sections, with a fee of one ing that a record shall not be issued ture, thus making a combined insecti- it, the more we see to fear of its rav- hundred dollars per mile per annum for more than one claim in the same cide and fungicide. The first applica- ages, and of the great labor involved and the usual royalty on the output of locality to any miner. There are oth-

has had full sway can understand its mining claims will be fifteen dollars. improved facilities for mining the fearfully destructive nature. If then, Any number of miners, not less than | wealth of the Canadian Yukon. the variety affected is not satisfactory, five, who may be in a district more or if the trees have passed their best, than one hundred miles distant from or the inner bark has been discolored, the office of a Government mining it would be far better to end the mat- recorder, may appoint an acting reter at once, and save expense and corder, who may record claims, and trouble by burning the trees. The only who shall within three months transscale to be trusted is the dead scale. As fer his record fees collected to the near- that's the reason you don't think it ne-

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A GENTLE HINT.

Titefist-My wife is just the finest cook on top of ground, she is. Mrs. T.'s mother-And I suppose cessary to hire one, is it?

present, at least from the aid of na-

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