

# WOMAN AVOIDS OPERATION

### Medicine Which Made Surgeon's Work Unnecessary.

Astoria, N. Y. — "For two years I was feeling ill and took all kinds of tonics. I was getting worse every day. I had chills, my head would ache, I was always tired. I could not walk straight because of the pain in my back and I had pains in my stomach. I went to a doctor and he said I must go under an operation, but I did not go. I read in the paper about Lydia E. Pinkham's Vegetable Compound and told my husband about it. I said 'I know nothing will help me but I will try this.' I found myself improving from the very first bottle, and in two weeks time I was able to sit down and eat a hearty breakfast with my husband, which I had not done for two years. I am now in the best of health and did not have the operation. — Mrs. JOHN A. KOENIG, 502 Flushing Avenue, Astoria, N. Y.

Every one dreads the surgeon's knife and the operating table. Sometimes nothing else will do; but many times doctors say they are necessary when they are not. Letter after letter comes to the Pinkham Laboratory, telling how operations were advised and were not performed; or, if performed, did no good, but Lydia E. Pinkham's Vegetable Compound was used and good health followed. If you want advice write to Lydia E. Pinkham Medicine Co. (confidential), Lynn, Mass.

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## FOR POTATO SCAB.

Tubers Should Be Sprayed With Formaldehyde or Corrosive Sublimate. [Prepared by New York station.]

Farmers who grow potatoes will find that treating the seed tubers with formaldehyde or with corrosive sublimate is helpful in securing clean, smooth potatoes. According to the State College of Agriculture at Cornell, scab is responsible to a large extent for rough looking and often unmarketable tubers, and this disease is common throughout New York state. Seed treatment, they say, will destroy the scab organism on the tubers, and when such treated tubers are planted on unlimed land that has not grown potatoes for three or four years a clean crop can be expected.

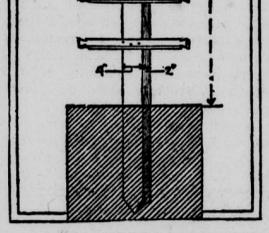
When formaldehyde is used the uncut tubers should be soaked for two hours in a solution made by diluting a pint of standard strength formaldehyde in thirty gallons of water. The college authorities find that a barrel is the handiest container for treating tubers. An inch hole should be bored at the side near the bottom and a plug fitted to it that can be pulled out by hand. The barrel should be set up on a platform high enough so that the solution may be drawn off into a pail.

Further directions, as given by the college, are as follows: Fill the barrel with uncut tubers and then cover them with the solution. When they have been in two hours drain off the solution through the hole near the bottom, dumping the potatoes on the ground and filling the barrel again. The formaldehyde solution can be used again and again, renewing only by the seed potatoes. If the treatment is made when cutting is going forward no time is wasted in looking after changes of treatment. In larger operations one can expeditiously treat a large number of potatoes by having eight or ten barrels. Treatment can be made at any time previous to cutting.

In using corrosive sublimate soak tubers one and one-half hours in a solution made by dissolving four ounces of the powdered sublimate in thirty gallons of water. In the latter case use only wooden vessels, as corrosive sublimate loses strength when in contact with metal. To two or three quarts of hot water in a wooden pail add four ounces of corrosive sublimate and stir until dissolved. Then add this to cold water in a barrel to make thirty gallons. This substance is very poisonous. It should be kept from children and the treated tubers kept from stock. Do not use the same solution more than three times without renewing.

Formaldehyde is not as effective as corrosive sublimate in controlling some other diseases, but is just as effective for scab, is much cheaper this year, is not nearly as poisonous, can be used in metal or wooden vessels and can be used over and over again. These advantages probably outweigh its disadvantages. Plant disease experts at the college of agriculture say that farmers will obtain satisfactory results with either.

Pea Supports. At this season the question of supports for pea vines is a troublesome one with many gardeners. When it is to be had brush is undoubtedly the best support, but with many brush cannot be had and a substitute must be used. Poultry netting becomes very



hot from the sun's rays and burns the tendrils. An old tennis net stretched between posts along the rows of peas makes an excellent support.

A good support can be made by using stakes of 2 by 4 inch material, such as used for frames of houses, though lighter material will answer. The stakes should be six feet above the ground, sunk deep enough in the ground to withstand the weight of the plants and the pressure of the wind. Nail six crosspieces on the uprights eight inches apart. Two or more of these stakes will be required, according to the length of the rows. Two will be sufficient for a row twelve to fifteen feet long. When the stakes are set the strong cord to the ends of the crosspieces, stretching them from post to post, but notches in the crosspieces to hold the cord's securely in place.

Hellebore For Currant Worms. Hellebore must be used freely to destroy currant worms. It can be applied dry or as a spray. For spraying one pound is sufficient for twenty gallons of water. Hellebore quickly loses its poisonous properties and therefore must be freshly mixed and applied frequently.

If You Want to Sell, Buy or Exchange Anything—Advertise

## AGRICULTURE AND PROSPERITY.

It is impossible to measure, or even estimate, the importance of agriculture to a people. It is the foundation upon which civilization and society rest; the basis and source of the permanent wealth of a nation. No people in history have made substantial progress in civilization, the arts and sciences, and have remained long prosperous if they have neglected agriculture. It is the most universal of all arts, the parent of manufactures and commerce and the basis of all other industries, and without which all others must decay and perish.

## GREEN BUGS IN KANSAS.

They Are Causing Great Damage to Oats and Wheat. Southern Kansas farmers in districts where green bugs have invaded the fields and the oats have been ruined are urged to starve out the pests by pasturing, and subsequently plant fields to feterita or Sudan grass.

L. E. Call, professor of agronomy in the Kansas State Agricultural college, who has investigated conditions, reports that the ravages by the insects have been severe in Sumner, Harper, to some extent in Cowley county and in north central Oklahoma. Oats practically have been destroyed in the portion of Oklahoma mentioned and in the eastern and southern parts of Sumner county.

Wheat has been damaged, but not destroyed. Even the corn has been attacked and by a sufficient number of bugs to ruin the crop. The insects were found as far north as Salina, but not in large enough numbers to cause alarm. Serious infestation is not expected to become general in Kansas unless dry weather should prevail. Heavy rains in southern Kansas would tend to destroy the bugs and benefit the crops.

"Replanting now is simply adding feed for the green bugs," says Professor Call. "Where oats have been damaged beyond recovery pasture the fields and thus reduce the available food supply for the pests. After this is done the ground either should be plowed or listed, depending upon the crop to be planted later. It is preferable to plow, as this will turn under green bugs and will leave no food for additional insects."

"The ground should be kept in good condition, but no crop should be planted until the bugs have been starved out or have been brought under control by the parasitic insects that usually hold the green bugs in check. When the bugs have disappeared it will be too late to plant corn or such late maturing sorghums as Kaffir. It probably will be advisable to depend upon early maturing crops, such as feterita for grain and Sudan grass for hay."

## Seed Planter Quite Useful.

The Scientific American in illustrating and describing a planter invented by O. L. Frelsinn of Santa Rose, Cal., says: This inventor provides a planter having a delivery hopper providing means which may be automatically

## PRUNING APPLE TREES.

Here are a few good general rules to follow in the pruning of apple trees: Always make cuts as close as possible, leaving no stubs. Remove all dead and badly cankered branches. Do not remove the fruit spurs. Remove all water sprouts unless needed to fill in open places. Prune trees annually and distribute pruning over entire tree. Keep all parts of the tree open enough to admit sunlight. Prune during the dormant season, preferably during the late winter and early spring. Paint all wounds two inches or larger with white lead and raw linseed oil. Avoid ready mixed paints. Do not allow a professional pruner in your orchard unless he can get a recommendation from some absolutely reliable authority.—New Hampshire Station.

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## Scientific Farming

TROUBLESOME SCALES.

Oyster Shell and Scurfy Scale Most Disastrous Next to San Jose. [Prepared by United States department of agriculture.]

Next to the San Jose scale orchardists appear to be more troubled by the oyster shell and the scurfy scale than by any other insects of this character. These two scales frequently kill individual branches and stunt whole trees. They winter in the egg stage under their protecting scales and for this reason are less susceptible to washes than the San Jose scale. In most cases, however, the treatment for the latter will hold the oyster shell and the scurfy scale in check as well. The oyster shell is found in nearly every state in the country. It attacks apple, maple, horse chestnut, poplar, willow, lilac and other trees. Shade trees which are not often sprayed are



EXAMPLE OF OYSTER SCALE.

especially susceptible to attack. This insect resembles somewhat a long narrow oyster shell, under which the eggs are concealed. These hatch at varying times, but usually through the months of April, May and June. The scurfy scale is especially common on apple, pear, cherry and peach trees. It is less widely distributed than the oyster shell and is regarded as less harmful. Where orchards are pruned and sprayed regularly for the San Jose scale during the dormant period no additional measures for protection against the oyster shell and scurfy scale are usually necessary. Additional spraying, however, may be needed if an abundance of young scales hatch in the spring. These may be killed by kerosene emulsion or other contact sprays. Infested trees should be carefully watched during the spring and early summer in order to discover the insects as soon as they hatch and to apply the spray at once.

Following are directions for making the kerosene emulsion and the lime-sulphur mixture used for spraying for San Jose scale, as well as for the oyster shell and scurfy scale.

Kerosene emulsion is made after the following formula: Kerosene (coal oil, lamp oil), two gallons; fish oil or lard dry soap (or a quart of soft soap), half a pound; water, one gallon. First dissolve the soap in boiling water, then remove the vessel from the fire. Immediately add the kerosene and thoroughly agitate the mixture until a creamy solution results. The stock emulsion may be more conveniently made by pouring the mixture into the tank of a spray pump and pumping the liquid through the nozzle back into the tank for some minutes. The stock solution, if well made, will keep for some months and is to be diluted before use. To make a 10 per cent spray (the strength for trees in foliage) add to each gallon of the stock solution about five and two-thirds gallons of water. For 20 and 25 per cent emulsions (for use on dormant trees and plants) use respectively about two and a third and one and two-thirds gallons of water for each gallon of stock emulsion. Agitate the mixture in all cases, after adding the water. The preparation of the emulsion will be simplified by the use of a naphtha soap. No heat will be required, as the kerosene will combine readily with the naphtha soap in water when thoroughly agitated. Double the quantity of naphtha soap given in the above formula, however, will be required, and soft or rain water should be used in making the emulsion. In regions where the water is "hard" this should first be broken with a little caustic potash or soda, as common lye, before use for dilution to prevent the soap from combining with the lime or magnesia present, thus liberating some of the kerosene, or rainwater may be employed.

A good lime-sulphur wash may be made for immediate use by the following formula: Stone lime, 20 pounds; sulphur (four or flowers), 15 pounds; water to make 50 gallons.

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