

### WHEN TILE DRAINAGE IS PROFITABLE.

It is not always an easy matter to determine beforehand whether or not the money sunk in tile drains will pay a profit on the investment. Sandy soils and many of our loams are capable of getting rid of the water quite rapidly after heavy rainfalls, and where such is the case draining would incur an unnecessary expense. Even the heavier soils in some instances will not bear the expense of drainage, especially if the rainfall is evenly distributed throughout the growing months. There is much land in Western Washington that will pay a large premium on money invested in good tile drains. The one condition above all others which indicates whether draining will be profitable or not is the attitude of soil toward water early in the spring. If, instead of presenting a dry surface almost immediately after frost comes out in the spring, it remains wet and "greasy" on the surface, this is strong evidence that much good would be derived by draining. Under no condition can one afford to have tilage operations delayed. A few days lost then is just that much taken off the growing season. We have frequently seen a difference of ten bushels per acre in an oat crop which could be traced directly to a delay of five or six days in time of seeding. Such an increase annually would very soon pay for drains.

Not only is there loss due to the delay in the spring seeding of wet lands, but at any time during the growing season crops are liable to get a setback that will greatly lessen their yield. Plant roots are liable to be surrounded by water and to remain in this condition for several days unless the soil is either naturally or artificially drained. Now ordinary farm crops are not able to thrive very long with their roots under water. Unless the free water is removed inside of two days there is likely to be some injurious effect upon the crop, indicated by a lighter tinge of the leaves or a sickly appearance generally. Under ordinary conditions under drains will remove the water fast enough so as not to interfere with growth. A few days under water will cut a crop 25 per cent every time. Such a loss would do considerable tile draining.

After it has been ascertained that crops suffer on account of surplus water it is only a matter of cold calculation to determine the profit that will be derived from tiling out. Fifteen dollars an acre may seem a good deal to bury out of sight, but if one could increase the value of his crop even to the extent of \$3 per acre this would be a liberal profit on the investment, although we have seen instances where the first crop entirely paid the drainage bill.

A farmer of experience sends the following recipe for mixing phosphorus for poisoning squirrel. He has found it to be a very safe and sure means of ridding the farm of the above mentioned pests:

First, put a gallon of wheat into a bake pan and place it in the oven until well warmed through; then put a half pint of syrup into an old milk pan and place it on the stove; now take half a stick of phosphorus and put it in the syrup; stir constantly with an old spoon, being careful to keep the phosphorus under the syrup as much as possible to keep it from blazing. When all is dissolved, place it over a tub of boiling water, and

then stir in the warmed wheat. When it is well mixed sift over it flour and mix until each kernel of wheat contained in the mass separates and each grain is thoroughly coated with the flour. After allowing it to cool, put it into tight cans until needed for use.

Some farmers like to flavor the wheat with a few drops of oil of rhodium or anise seed. Twenty drops of either will be enough for this amount of poison.

The business men of Manti, Utah, are offering \$1 per bushel for grasshoppers. It is thought that the country can be relieved of the pest by this means.

The pumping plant for irrigation has come to stay, and it needs no vivid imagination to be able to draw a picture of the time when it will be found in all the arid west and will be recognized as an indispensable factor in horticultural and agricultural development.



## A Nightmare

Gives point to the fact that excessive or irregular eating disturbs the digestion. Nightmare or night hag has its day time correspondence in the undue fullness after eating, with the belchings and sour or bitter rising so often experienced after too hasty or too hearty eating.

Dr. Pierce's Golden Medical Discovery cures dyspepsia and other diseases of the stomach and its allied organs of digestion and nutrition. When these diseases are cured, the whole body shares in the increased strength derived from food properly digested and perfectly assimilated.

"Your 'Golden Medical Discovery' and Dr. Sage's Catarrh Remedy have been of great benefit to me," writes (Prof.) Pleasant A. Oliver, of Viola, Fulton Co., Ark. "Before I used the above mentioned remedies my sleep was not sound; digestion bad; a continued feeling of misery. I now feel like a new man. Any one in need of medical treatment for nasal catarrh could do no better than to take treatment of Dr. R. V. Pierce. I know his medicines are all right in this class of diseases."

Sometimes a dealer tempted by the little more profit paid on the sale of less meritorious medicines will offer the customer a substitute as being "just as good" as the "Discovery." It is better for him because it pays better, but it is not as good for you, if you want the medicine that has cured others, and which you believe will cure you.

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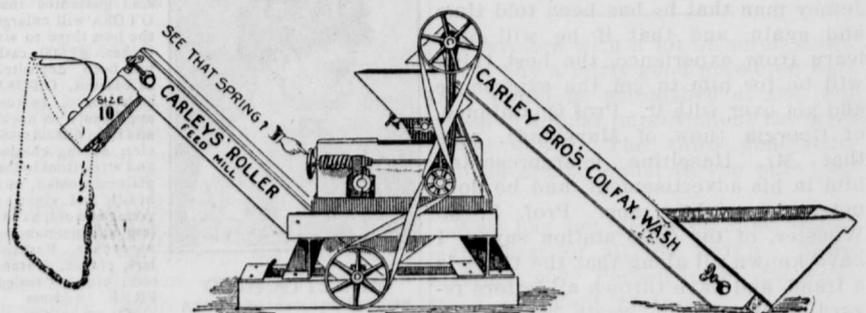
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