

# 2 IN 1

## SHOE POLISHES

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#### Sub-Surface Irrigation.

A novel form of underground irrigation system is described in Popular Science Monthly by Dale Van Horn, who says:

If the garden plot is not large and one has access to an old line can pipe, no fears need result from continued dry spells, according to the plan of an ingenious farmer. He amassed a lot of half-gallon and gallon cans from such a pile, perforated them with small nail-holes, plied the hoe, and sank each can to the level of the ground between rows of garden stuff.

When the cans were filled with water the moisture reached the roots of the plants by a direct, business-like route. A gallon of water, this thoughtful person found, went three times as far, when administered in this fashion, as when poured on in the usual way. Figuring out the profits, it was found that each minute thus spent was worth three ears of corn, half a head of cabbage, eleven radishes, and two turnips.

#### Apple Aphids.

The application of lime-sulphur (1 to 3), nicotine sulphur (1 to 800) combination applied at the delayed, dormant period gives practically a perfect control for apple aphids and makes unnecessary a separate, earlier application of lime-sulphur for San Jose Scale, according to the report of experiments carried on at the Massachusetts Agricultural Experiment Station.

#### Improve Fertility of Soil.

Ways and means should be devised to improve the fertility of the soil so the farm will yield more and products of better marketing quality. It can be done and it will pay in the long run.

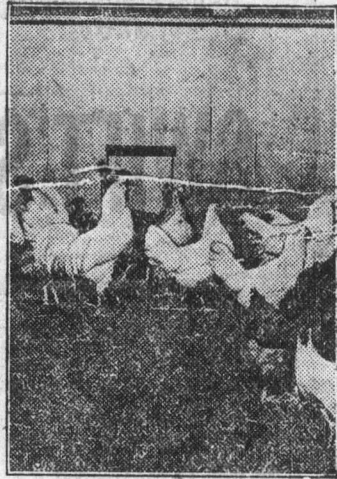
## MAKING POULTRY PAY

### SEVERAL METHODS SUGGESTED FOR SAVING EXPENSE.

Co-operative Hatchery May Be Used With Good Results in Small Community, One Person Owning an Incubator, While Others Pay a Small Fee for Having Their Eggs Hatched—How to Secure Best Results.

A good way in a small community, is to let one person own and operate an incubator, the others bringing their eggs to the hatchery, and paying a small fee to get them hatched, bringing home the baby chicks when a day old. But, to the person essaying the raising of a flock of poultry all extra expense must be guarded against, because all expense has to be later deducted from whatever profit is made. Looking at it like this, it is readily seen that for anywhere round one hundred chicks or less, the expense of buying a brooder is too great, and because the little chicks need warmth, some way must be thought out. The premier method is to set a hen to hatch simultaneously with the incubator chicks, and place her with all of the chicks in a low house, with good tight roof and sides, but no floor. The house is floorless so that it may be taken up and removed to a dry, clean spot when the floor space has become dirty.

Artificial brooders to hold a small number of chicks can be made of empty cheese boxes or half barrels, lined with woollen cloths. It is not



A Good Flock.

necessary to use these for very long, because as soon as the little chicks begin to feather they will covey in a corner of the house among the straw. If it is desired to get the chickens to marketable size as quickly as possible, they should not be allowed too much range.

It is advisable to have a good-sized run on each side of the chicken house, and to sow some kind of grain in one while the chickens occupy the other.

When the grain is a few inches high, turn the chickens in there, and give the other run the same treatment. Thus the birds will always have tender, green feed. And a watch must be kept for vermin. These pests, with chicken cholera to help them, will soon wipe out a promising flock. Examine the chickens frequently, to see if they are infested, and spray the house with lime as often as possible. Never leave wet food around, more than the chickens can consume while it is warm, not being necessary. It is this cold stuff lying about that will give them cholera. But a hopper filled with dry rolled oats is needed always, if you would have fat chicks.

Seeding time is coming, and the poultry keeper with ground to spare, and who wants eggs for next winter, must prepare now for the supply of green feed for the birds. A little thought will show that in summer a hen is constantly pecking at the grass and leaves. In winter, something must be given as a substitute, so plant mangels, sugar beets, turnips and potatoes for the flock.

Also, during summer, store a supply of light soil, as well as plenty of shell and grit, as well as some old plaster if possible. But be careful that no paint adheres to the plaster, because it is poisonous. In winter, the laying hen needs all of these substances to form the shell of the egg.

Chickens must be given no salt. It makes them drink too much and death follows. But the laying hens need a little salt in their feed each day, it makes them healthy, acting as a tonic. About every second week, a teaspoonful of sulphur to each twelve hens should be given in a wet mash. This acts as a disinfectant, and keeps the hens in good condition. If fattening fowls, place in a small run. Give plenty of water, and extra feed, allowing one pint of linseed meal to each ten pounds of feed given daily. It pays to fatten fowl for market. Plump, yellow, fleshed birds bring good prices, while the scrawny, neglected sort, almost have to be given away.

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