

QUESTIONS AND ANSWERS. Miscellaneous.

A FREE-MARTIN.

I have a pure-bred Jersey cow which has given birth to twin calves, a bull and a heifer. Can you tell me will the heifer be of any value as a breeder of stock?

J. W. R.

Ans.—The heifer twinned with a bull in probably ninety cases out of a hundred fails to come in heat, and is, therefore, barren, and is called a free-martin. In odd cases, a heifer so twinned comes in heat and proves a breeder. The bull twinned with a heifer is generally as sure a breeder as if born single or twinned with a bull.

ALFALFA ON FIELD WITH GRAVEL SUBSOIL.

1. Would alfalfa likely do well on land having about 18 inches of loose soil over a very hard, gravelly subsoil, or is this too shallow to expect good results? The land is sandy loam, with good natural drainage and rich enough to grow a good crop of hay or oats.

2. Which would be the better, land which grew a crop of buckwheat last summer, or lea plowed last fall?

3. Would you recommend sowing with a nurse crop or alone, and what quantity of seed per acre?

C. P.

Ans.—1. Unless the gravelly subsoil amounts to actual hardpan, the alfalfa roots will doubtless make their way through it, providing the water table is well down.

2. With the buckwheat land. On inverted sod, grass is liable to work in and crowd out the alfalfa. Land intended for this crop should first be made as clean and free as possible from grass and weeds.

3. In some cases rather better results are obtained from sowing alone, but, generally speaking, it is advisable in the interests of economy to sow with a light nurse crop of barley or wheat. Twenty pounds of first-class alfalfa seed with a bushel or five pecks of barley per acre.

NEGLECTED PEAR TREES.

I should like to receive your opinion as follows: I have a number of late pear trees which have been neglected and very severely pruned. The trees have made all top wood and grown very tall. Would you advise top pruning and inducing growth on lower part of trees by lightly pruning any new wood from lower part of stem? I propose dressing trees with bone and potash this spring. Would you advise this? Or, would this cause trees to make too much wood-growth, as they appear to have this tendency? If a space around each tree were left uncultivated, would that check any tendency to make over-much wood?

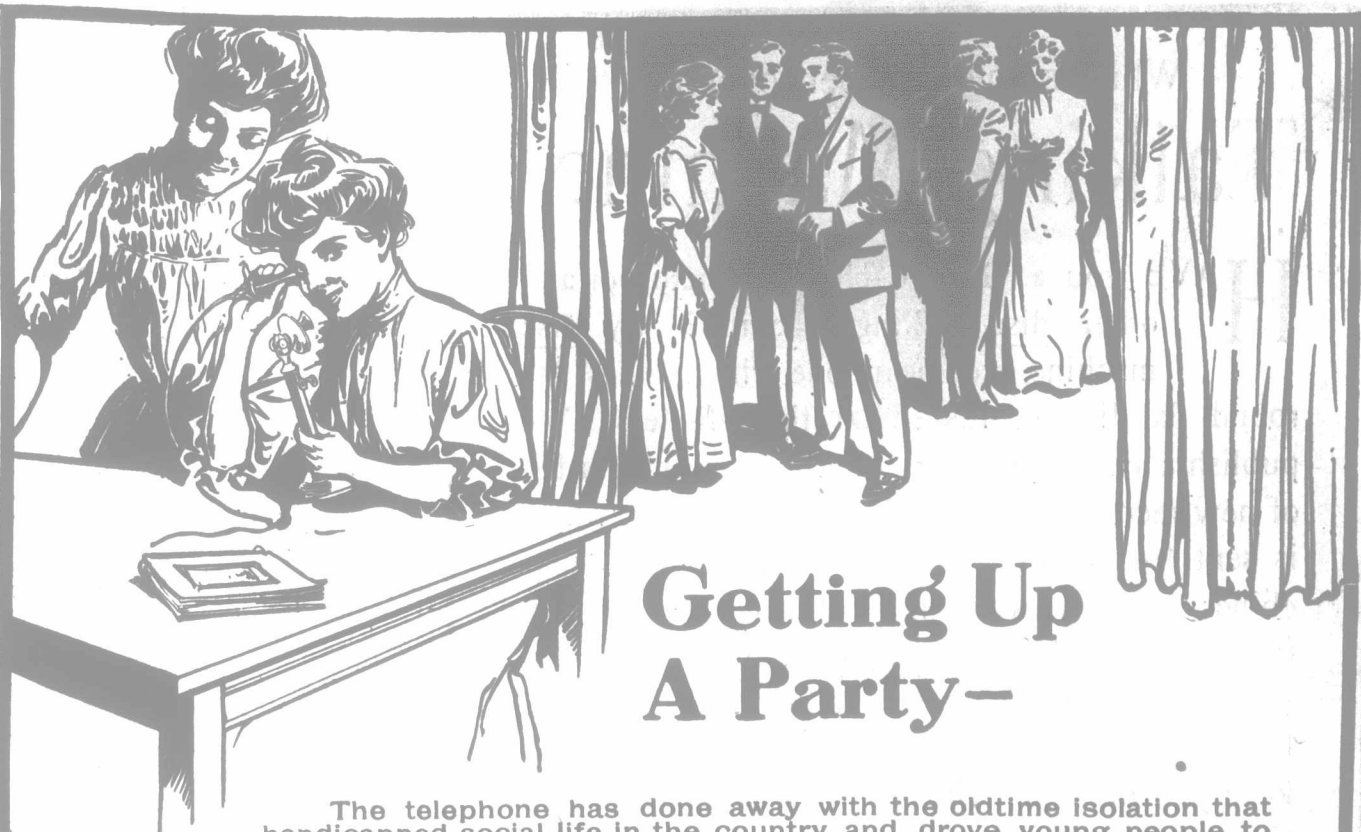
E. F. W.

Ans.—It is always more or less of a difficult problem to get into proper shape old trees which have been neglected or injured by improper pruning. If the trees have been trained too high, the only remedy is to cut back the tops more or less severely, and allow the new growth on the lower part of the tree to form branches which will in time produce bearing wood. The natural tendency of the pear is to grow more or less upright, and it requires careful annual pruning to overcome this tendency, and give the tree a more spreading habit of growth by cutting back to buds on the outside of the tree; that is, to buds pointing in the direction you wish the new growth to take, and at the same time thinning out the interior of the tree where it is too crowded.

Bone meal and potash are excellent fertilizers for fruit trees on most kinds of soils, as they tend to promote fruitfulness rather than excessive growth of wood. Leaving the trees in sod would, of course, tend to check growth of wood; but it is seldom that trees so treated give best results. As a rule, the best results are obtained by giving good cultivation during the early part of the season, applying whatever fertilizers the soil requires to insure production of good crop, and regular annual pruning to keep tree in proper shape and admit light to all parts of the tree, which helps to improve the quality of the fruit.

G. A. C.

H. L. HUTT.



Getting Up A Party—

The telephone has done away with the oldtime isolation that handicapped social life in the country and drove young people to the cities. In fact the telephone has completely turned the tables, and to-day the city dweller envies his country brother the good social times that are now to be had on the farm. Perhaps you think you do not need the best instrument for a light chat with friend or neighbor, but remember that same telephone will also be called upon in your more important business when the reply of "I can't hear half you say" might be a serious matter. THEREFORE BUY AND USE ONLY,

The Northern Electric and Manufacturing Co., Ltd.

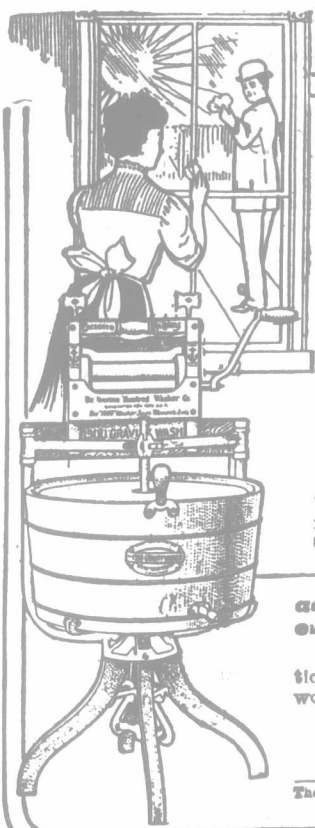
APPARATUS AND EQUIPMENT.

The kind that is used on lines that carry messages 1500 miles. The kind that can ALWAYS be depended upon. Write us for prices and information on rural and suburban equipment.

THE NORTHERN ELECTRIC & MANUFACTURING CO., LTD.

MONTREAL AND WINNIPEG.

USE ADDRESS NEAREST YOU.



WASHING ALL FINISHED

One of the secrets of Happy Home Life is to have your washing all done and the clothes out on the line before breakfast. You'll be able to do this easily and be able to say goodbye to your husband when he goes to work with a pleasant smile and in clean attire if you use a

BEFORE THE MAN OF THE HOUSE LEAVES

"1900 GRAVITY" WASHER

It's the handiest and quickest washing machine made; you can wash a tubful of the heaviest and dirtiest clothes in six minutes, doing it better than it could be done by a strong woman in an hour or more.

Remember—if you use the "1900 Gravity," there'll be no hard, sloppy, dirty work, no danger of colds and rheumatism, no wearing and tearing your fine linens and lingerie, and best of all wash day will also be ironing day.

DON'T MISS THIS FREE TRIAL OFFER

We are the only people on the continent that make nothing but washing machines and that are willing to send a washer on

ONE MONTH'S TRIAL FREE to any responsible party—without any advance payment or deposit whatsoever.

Write to-day for our handsome booklet with half tone illustrations showing the methods of washing in different countries of the world and our own machine in natural colors—sent free on request.

Address me personally F. A. G. Bach, Manager

THE 1900 WASHER CO., 365 Yonge Street, TORONTO, Canada

The above free offer is not good in Toronto and suburbs—special arrangements are made for this district.

We ship it free anywhere and pay all the freight ourselves. You wash with it for a month as if you owned it. Then, if it doesn't do all we claim for it, ship it back to us at our expense. Could any offer be fairer?

LOOK FOR THE LABEL ON THE TUB None genuine without it.



ANIMAL DIP-DISINFECTANT-LICE KILLER-WORM POWDER

USED AT 44 AGRICULTURAL COLLEGES
IS FOR SALE AT ALL DEALERS EVERYWHERE

ZENOLEUM

SEND FOR FREE 64 PAGE VETERINARY BOOK

IF ZENOLEUM IS NOT SATISFACTORY, EITHER WE OR YOUR DEALER WILL REFUND YOUR MONEY
THE ZENNER DISINFECTANT CO., MAKERS, 112 WINDSOR, ONTARIO.

Best Results are Obtained from Advertising in The Farmer's Advocate

Write for Samples and Booklet of

FLINTKOTE REX ROOFING

and see for yourself

J. A. & W. BIRD & CO.
20 India Street, Boston, Mass.

Canadian Office:
29 Common Street
Montreal

SEND \$1. receive 5 cloth remnants, suitable for boys' knee pants up to 11 years. Give age and we will cut out pants free. Add 50c. for postage. W. Southcott & Co., 3 Coote Block London, Canada.