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320 ACRES—SASKATCHEWAN—JUST SOUTH OF WADENA—ON THE QUILL PLAINS; 270 acres tillable; 60 acres pastures; first class house, granary, two stables, implement sheds, etc.; this farm delivered at the elevator from machine, as it is less than a mile from the river, a great investment; forty-two per acre, terms arranged; highly consider good Ontario farm at \$20.  
I have some attractive FRUIT and DAIRY FARMS to offer in the FRASER VALLEY, near VANCOUVER, NEW BRUNSWICK and CHILLIWACK, B.C. Write me at once for my British Columbia Catalogue.  
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320 ACRES—SOUTHERN ALBERTA—first class land. This farm at \$20 per acre, the price will be raised in a few weeks if not sold before then; \$15 per acre; 1-4 cash.  
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640 ACRES—SASKATCHEWAN—1 mile from Girvin and 6 miles from Davidson, all under cultivation; 400 acres; 400 acres and the balance prairie; good 6 room frame house with stone foundation; fair outbuildings; 7 horses with 8 set harness; The binder, 1 mow, 2 new grain grinders, 1 disk, 2 wagons, 1 hay rake, 1 set bobble, 1 carriage, 2 hawks, 1 disk drill, plow, and other tools too numerous to mention. We will sell this farm as a going concern at \$25 per acre; \$2500 cash; balance 4 yearly payments at 6 per cent. This is a real snap.  
In addition to the above I have hundreds of choice selected grain, stock, dairy and poultry farms to offer at low prices, on the eastern, central and western prairie and British Columbia, Saskatchewan and Alberta. I can fill the bill and save money.

H. F. LINDE, Box 44, WADENA, SASK.

## HORTICULTURE

## Broad Beans

Why are my broad beans always a failure? They grow to be large plants, blossom and then the leaves blight and become black. The pods never form.—R. T. W. Thorndale, Ont.  
The broad bean or horse bean is affected with a blight disease in some parts of Canada. It is more injurious in the drier parts of Canada than in the maritime provinces where the plants are healthy. In some parts of the country the horse bean is not at all reliable on account of this disease. So far as I know, no remedies have been tried for controlling it.—W. T. Macoun, Central Experimental Farm, Ottawa.

## Transplanting Tomatoes

A practical gardener gives the American "Farmer" this hint: A few hours before taking tomato plants up for setting out into the garden the bed should be thoroughly soaked; you can then take up the plants with considerable soil clinging to the roots

and they will not suffer so much check from transplanting. If the plants were grown in flower pots, take the soil and plant out of the pot together and make a hole in the garden big enough to receive it, the roots will not be disturbed in the least then and the plants will keep right on growing.

If possible do all of your transplanting on a rainy day, otherwise the plants should be watered until well started. As soon as the plants have started, start to work the soil; taking care not to break the hard or baked, as that would check the growth of the plants. One of the secrets in growing tomatoes is to keep the plants steadily growing from the time they come up until they commence to ripen.

After the plants have become so large that cultivation is no longer possible, the ground should be covered with hay or straw; the weather is dry, it will help preserve the moisture, and if it should be rainy it will keep the fruits much cleaner than if they were lying on the bare ground.

## Dwarf Apple Trees

W. T. Macoun, Central Experimental Farm, Ottawa.

There has been a revived interest in dwarf apple trees in Canada and the United States during recent years, growing principally, no doubt, to the fact that such trees are now considered necessary to the grower with success with pear trees, and that dwarf trees can be sprayed much more easily than standard trees. The success with dwarf trees in America has not, however, been so generally successful as was hoped, although in some cases good results have been obtained. The difference in results, soil, varieties, and so forth, but also largely to methods of pruning dwarf trees requiring much more care in pruning than standards.

Dwarf trees under favorable conditions come into bearing much earlier than standards, fruit being sometimes obtained the second year after planting of varieties that usually take six or seven years to come into bearing. As dwarf trees are much smaller than standards the crop is smaller on dwarf trees in proportion. Dwarf trees may set about ten or twelve feet apart each way or less. Two of the commonest kinds of dwarf stock for apples are the "Paradise" and the "Doucin," the former dwarfing the tree more than the latter. The "Doucin" stock will probably give better results on the whole in this country than the "Paradise."

## Mushrooms

When and how is the proper time and way to plant mushroom spaw? This is the way I plan to do it. I dug a trench about eight inches deep and in this trench put good heated horse manure and dug trench on the manure and put on that way until I had about eight square feet and then I put the spaw in (which I broke in pieces about the size of a hickory nut or larger). After a day or so I watered the bed with lukewarm water, but they did not grow.—H. T. M. Teller, Ont.

I have had no experience in cultivating mushrooms and too much to say in view of the difficulty of maintaining a proper temperature and a uniform air level in the climate, any success attained would be more the result of chance or luck, than of skill or management. I would advise the amateur grower, to procure some standard work on the subject, and study and follow carefully the directions given. Falconer's "Mushrooms, and How to Grow Them," is a standard work. It may be secured from Farm and Dairy for \$1.00 postpaid. Mushroom growing is like rod fishing. There is enough uncertainty about it to make it fascinating, but not always profitable.—Thos. Delworth, Weston, Ont., President of the Ontario Vegetable Growers' Association.

## Arsenate of Lead

M. C. Smith, Halton Co., Ont.

Arsenate of lead has many advantages over Paris green as a poison to control codling moth or any leaf eating insect. It mixes readily with water and stays mixed with a minimum of agitation; it is much lighter than Paris green; consequently it mixes easily held in suspension. There is nothing in it to clog nozzles. It sticks on the foliage and cannot be washed off by rains. An arsenate of lead will last on the foliage throughout the entire season. It is the safest form of poison that can be used. It positively will not burn foliage of any description, fruit or vegetable.

It should be used in the proportion of two pounds to a forty-gallon barrel of water. At this strength it will control codling moth. If canker worm or potatoe bugs were allowed to get very bad, an additional pound could be added with absolutely no danger to the foliage.

It is advisable when buying arsenate of lead to get a brand that has a guaranteed analysis of arsenic oxide of at least sixteen per cent., such as the "Niagara Brand." This brand has been used very largely in Canada and the United States and has given excellent results. It costs from twelve to fifteen cents a pound, according to the size of the barrel. I would not have any brand of arsenate of lead without any price that had not been fully explicated with on foliage, nor would I buy one that did not have a guaranteed analysis of at least sixteen per cent. of poison.

Of late years, Paris green has varied so in strength that a grower is never sure of results; an overdose at any time is dangerous to foliage. The first cost of arsenate of lead would be slightly higher than Paris green, but the difference in the results will more than make up the difference in cost, and it is the best results that growers should be for. Arsenate of lead can be applied by itself, with lime and sulphur or with Bordeaux mixture.

The coding moth is the most destructive pest that the orchards of Ontario are subject to. It causes more loss than any other, and it is the easiest controlled. A thorough application of arsenate of lead when the blossoms are falling stock for almost entirely control it. Thoroughness in spraying is the most essential feature. Fill in the calyx end of every blossom with poison. Do not try to spare your spraying material. In seasons like last year, when the coding moth is very active, a later spraying in about three weeks or a month is necessary. What growers in Ontario need to learn is thoroughness and arsenate of lead used at the proper time will control codling moth.

## B. C. Fruit Crop Prospects

NANAIMO, B. C.

South Salt Springs.—The season is late and cold. Chilly winds have hurt odd fruit buds, but owing to the light crop last year, there is a fair show of apple bloom, though the buds will not show color for some time. Pears lighter than last year; plums, lighter; peach promise well. Small fruits may be good. Nuts are bloomed well during good pollinating weather.—W. J. L. H.

Kelowna.—Fruit buds have come through splendidly, even peaches and apricots being in perfect condition. Apples and, in fact, all fruit trees are full of blossom buds. If fine spring heavily this year, as the weather continues, this district should be bearing orchards in no considerable. Some strawberries suffered from want of snow in early winter, where melons there is a noticeable difference.—"Ceraus."

"I like Farm and Dairy very much"—E. H. Evans, Nanaimo, B.C.

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