

Soils and Tops

Address communications to Agronomist, 73 Adelaide St. West, Toronto

EARLY STRAWBERRIES.

Question—York County, Ont.—I am growing strawberries for the Toronto market but find the Glen Mary a little too late in ripening to catch the early market. Please advise me of earlier kinds; also tell me what is a good green manure to plow down after the strawberries are plowed up in preparation for re-planting?

Answer by the Dominion Horticulturist—There are two or three varieties which are somewhat earlier with us than the Glen Mary. Perhaps the earliest is the Excelsior, an old variety which is poor in quality, but a very good yielder. Among the fairly early varieties is Maggie, and still another is Beder Wood, the latter being fairly well known and perhaps as good in quality as any.

If the strawberry patch could not be plowed under by the middle of July, it would be difficult to get a cover crop of sufficient quantity to be of much service. On the Experimental Farm at Ottawa we sow rape about the 6th or 7th of July and get a fairly good stand, plowing it under the following spring. Hubam clover might be worth a trial as it is a fast grower and as it is an annual does not carry with it the danger of becoming a weed.

FORCING VEGETABLE CROPS.

Question—I should like to get some information on forcing cucumbers, tomatoes, peppers, cabbage, and squash. I succeed in raising the plants but not in getting rapid growth, especially the cucumbers.

Answer by the Dominion Horticulturist—The failure to get rapid growth would indicate a lack of available plant food at the proper time. Such crops as cucumbers, peppers, and squash require a soil that will warm up quickly and respond to cultivation by yielding up the plant food rapidly. It would be well to apply nitrate of soda at the rate of 300 pounds per acre. If this is not done until after planting scatter a small amount of the nitrate of soda along each row of plants and cultivate it into the soil. A similar quantity of 16 per cent superphosphate applied with the nitrate of soda would also help development of the fruit, especially the peppers, squash and cucumbers. Treatment for the growing of these crops is found in pamphlets distributed by the Publications Branch of the Department of Agriculture at Ottawa.

FEEDING THE WEANING FOAL

The most important period of a

Harvesting the Winter Stump Crop

By Gaston Farmer

Said a neighbor to me the other day, "I have been plowing and cultivating the big crop of stumps on my place for five years now, and I can't see that they are improving at all—so I'm going to harvest them! I have bought dynamite and a blasting machine and am going to blow them out, as you did last year."

Previous to this, the same neighbor had asked about the effectiveness and cost of stump blasting and I gladly gave him my experience:

"First, he wanted to know if stump blowing is expensive. I told him 'Yes.' Any method of getting rid of stumps will cost something. Still more expensive, however, is the method of waiting for them to rot and thus prohibiting the use of improved machinery for years and years—machinery which would pay for itself and the cost of stumping many times over."

FIRING WITH FUSES

There are two general methods of blowing stumps with dynamite at the present time. One is by firing the charge with fuse and the other by an electric firing machine.

The first method is most generally used at present and gives the best results when shooting tap-rooted pine stumps, where one charge of dynamite is placed in an augur hole in the centre of the main root. Where these conditions are found, the fuse method of blasting is very satisfactory and economical, as it cuts off the tap-root below the plow line and splits the stump into easily-handled pieces.

It has the disadvantage of labor and time required to bore the hole into the root from twelve to thirty-six inches according to the size of the stump. A satisfactory method of boring such holes by machinery has not been devised for the average farmer.

Still another method of loading for fuse shooting is to bore a hole down by the tap-root and place the charge outside the root. This works satisfactorily on small stumps, but on large ones it is not effective, because only one charge can be fired at a time. The usual effect of such a shot is to blow the dirt away, leaving the stump split, but intact. A second or third shot will then be necessary, and with the ground loose and the stump split, it is next to impossible to confine the charge so as to do a clean job.

The electric method consists of placing two or more charges around the stump and firing all at the same time with a blasting machine. The larger

Potatoes must breathe, so they must have air or they die.

The Windmill.

The windmill, spinning round and round, emits a dreary, snarling sound; and so would you, perchance we'll say, if you should spin around all day.

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DAIRY

Is a superior or inferior cow born or grown? Answering this common question has called for a great deal of investigation, and the matter is by no means settled as yet, but some of the information may prove of aid to the dairyman who is looking forward to getting a better foothold in the game, and who is not satisfied to just stand still. Feed is supposed to affect size, the fact that Canadian lamb is now recognized as a high class and fashionable product. Mr. Arkell urges sheep breeders to do all they can to improve their stock, not only for the production of a tasty and popular meat, but as well learned by careful and well conducted investigation.

There is no doubt that a heifer fed a heavy grain ration will develop into a larger cow than one reared on roughage alone, but the difference in size is much more marked during the first few years and less so at maturity.

Experiments show the height at the withers of an eighteen-months-old, heavy-fed heifer, to be 35 inches more than for the poorly fed one, while at maturity the difference was only one inch.

Liberal feeding may affect type temporarily in that heifers so fed will be heavier and show beefiness of form instead of the angular conformation looked for in the good dairy cow. If, however, the heifer has inherited from her parents the factor of heavy milk production she will usually "milk off" this additional fat during her first lactation period and ultimately develop into as good a producer as her more scantily-fed mate.

I find it a good practice to separate the ewe lambs in the fall and winter, and feed them liberally on muscle and bone-making food. Alfalfa or clover hay, bean pods and bright corn fodder are excellent roughages. Corn silage is a splendid source of succulence and can be fed safely if not too rich in grain.

Roughages alone should not be depended upon for developing the ewe lambs. I fed a light grain ration, consisting of equal parts of oats, corn and wheat bran in shallow troughs twice daily.—R.

SHEEP

The ewe lambs should be separated from the older members of the flock, from the younger and timid the ewe lambs, if allowed to run with the ewe flock, will not receive the food they require and consequently fail to mature as rapidly as they should.

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Ontario's Greatest Grain Crop

In 1923 oats were grown more extensively in Ontario than all other grains combined. It is probably safe to say that three-quarters of the oats which are now grown in this province are of the O.A.C. No. 72 and the Ban-

allowance of from two to three pounds per animal per day, according to age.

Canadian Lamb in Demand.

Canadian lamb has obtained such a

reputation on the New York and Boston markets that it is now a specialty

on the menu cards of some of the leading hotels in the big cities of the Eastern States. Mr. H. S. Arkell, Dominion Live Stock Commissioner, stated recently that the duty has made no marked difference as regards demand as customers had shown a willingness

to pay the increased price asked. The Morreal market has established itself as one of the best lamb markets on the North American continent, and many of the best pure-bred rams that laid the foundation of this state of things were from Ontario. Information received by the Live Stock Branch shows that there is a wide-spread demand for high-class breeding rams in all parts of the country, due largely to the fact that Canadian lamb is now recognized as a high class and fashionable product.

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Home Education

"The Child's First School is the Family"—"Freelbe!"

Are You Dulling Your Child's Sense of Appreciation?

BY HELEN GREGG GREEN.

"Papa Bob," I heard little Mid say, for two others for Mid and Baby to her grandfather, "there's a little Lamb." In less than a year each one boy in our block who gets only one toy every Christmas. And do you know, "I think it's a good tom-out-of-the-third." The reason for such carelessness? Too many toys! The children did not appreciate them. If they had, Most parents dull their children's sense of appreciation and enjoyment by over-indulgence. Isn't it for this. Why, even little Mid, herself, admits

reason that the majority of grown-ups expect too much from life, and are more or less disappointed, and quite mother who could, if she were less to their expectations? Is it any kind of life, fulfill every wish of her son and daughter, who made this ruler-ness to teach a child to expect to receive everything his heart desires? And eventually that will be his attitude if we shower him at Christmas, birthday, and other times with all the toys and clothes wished for.

Little Mid has two younger sisters. These very appreciative children have two "sets" of admiring, indulgent grandparents. One Christmas Grandmother Grace paid twenty dollars for a doll's carriage for the youngest of the children, and twenty-four dollars each

you should know these children. They are the most appreciative, little folks you could imagine.

Let us not surfeit our boys and girls with too much of this world's goods. It may be a lot of fun for us, but our children will be happier if we do not dull their sense of appreciation.

Live Stock Movements in Ontario.

Ontario marketed 297,180 cattle, 10,505 calves, 694,693 hogs, and 327,427 sheep and lambs in 1920; 383,474 cattle, 150,202 calves, 1,003,632 hogs, and 319,407 sheep and lambs in 1921, and 307,500 cattle, 182,427 calves, 1,080,270 hogs, and 266,226 sheep and lambs in 1922. Report No. 3, of the Markets Intelligence Service of the Dominion Live Stock Branch, from

which these figures are quoted, gives detail of the movements of live stock from every district not only in Ontario, but in Quebec and in each of the Prairie Provinces in the three years 1920-22.

The report suggests among other things that the heavy marketing of calves in 1922 is likely to cut down the prospective beef supply. The fact is recognized that of the hogs marketed, well over 60 per cent went direct to slaughter at Canadian packing plants, that practically all the choice to good

finished cattle marketed are from the Province of Ontario. It is apparent, says the report, that considerable over-marketing has occurred in connection with sheep—much of it from the districts where our breeding stock is largely recruited. Relative to Quebec the remark is made in the report that well over 50 per cent of the cattle, calves, and hogs marketed at public stock yards in that province are received from Eastern Ontario.

Protect the Lawn in Winter.

During the winter the area which in summer is a lush green carpet in front of the house is often abused. Frequently it is not only neglected, but maltreated. Occupants of the house

during sessions of cold weather are prone to remind themselves that a straight line is the shortest distance between two points, and often they economize in distance travelled at the expense of the lawn.

A well-beaten path made across the lawn in winter will probably work permanent damage. The grass may be killed and the soil so compacted that grass seed sown thereon the next season will not thrive. Such a path will generally be obvious for a number of years. A "cow path" is distinctly an unattractive feature on a lawn. The lawn sign of summer, "Keep off the paths that are making," may well be heeded throughout the year.

Another sin against a lawn is to flood it for the purpose of making a skating rink. A body of ice over the lawn in winter is almost certain to completely kill the grass. The grass will not tolerate for a long time a covering which precludes movement of air.

Young lawns should have a covering of snow. A wind-swept lawn, blown free of snow in winter, is likely to lose much of its young clover. Brush spread about tends to deflect the wind and holds the snow.

Soft Bacon.

Experimental work at the Ontario Agricultural College has proven that soft bacon comes from pigs that have been fed heavily during early life on fattening feeds while enclosed in pens or yards so small as to prevent proper exercise to the animals. O.A.C. experiments have also proven that pigs grown to 125 pounds weight on mixed feeds well balanced with skim milk (2½ pounds milk to 1 pound of meal) or tankage up to 10 per cent in the ration may be finished on corn or barley and still produce a firm, high quality product. Dairy by-products tend to offset the trouble arising from lack of exercise, but both exercise and skim milk are better than either alone.

Fox Farms in Canada.

There are 977 fox farms in Canada valued at \$7,649,877. Of these, 434 valued at \$3,692,509 are in Prince Edward Island, 107 valued at \$474,047 in Nova Scotia, 86 valued at \$839,705 in New Brunswick, 146 valued at \$773,324 in Quebec, 120 valued at \$765,115 in Ontario, 19 valued at \$654,510 in Manitoba, 4 valued at \$91,826 in Saskatchewan, 24 valued at \$133,932 in Alberta, 21 valued at \$122,850 in British Columbia, and 16 valued at \$102,060 in Yukon Territory.



'What would you charge for a life-size miniature of me if I supply the paint?'—From the London Mail.